

<211> 346
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-F4

 <400> 54624

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 tccctatata aaatcccaat ttactgcccc gtccatccac cgtcatagct ctcttaaacc 180
 caaccaaagt ccatccactc ccaccctttt aacaacaaaa cccctggaaa accccagcct 240
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 aacccccccc ccaaccctt tcccaacatt tacccaacct aaaacc 346

<210> 54625
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-F5

 <400> 54625

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 gcacgtaaaa ataaaaaccc cttagaaaa tagggttctc aaaatagccc taagaaatgc 120
 aagaaatccg gcacgttaca cttctgtcca caacatagct ttttgcagag attcagtaca 180
 taaggattct tcaaattaac cataccacac cataacatgg gacatttgcg aaactacggg 240
 tacaggatc aaaatgcaac gagttcaata ctaaaatata agcgtagtgc aatctaattc 300
 tcttcctcgc cctcggttctc agcaatgttg aagtagcgga gctcatagac gtttcgggtc 360
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 gtc 423

<210> 54626
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-F7

<400> 54626

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ctgtcgtttg ctgccgcgtc tgcgtccgcg ggcgtgacca tcctgttcga gagggacgtc 180

cacttctgca ggatgtaccc gcagttgtcg tgcggccggt acgcgctctc ggtgggtgctg 240

gcgttcatca cctggtcctt catcgcaact tctgctgtct ccatgttctg gttgctgccg 300

tcgctctgat gtggcacgga aagagcctgc cgtgctgtcc tggt 344

<210> 54627

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-F8

<400> 54627

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aaaattacaa taattgttgg tggaagtttt ggggctggga attatggaat gtgcgacgt 120

gcatatagcc caaacttttt atttctttgg ccaactgcta ggatatctgt tatgggtggc 180

atccaggcag ctggagttct cgctcaaata gaaaagaaca acaaaaagag acaaggagtg 240

gagtggagca aggacgagga agaagccttc aaagccaaag tcgtggaggc ttacgacaga 300

gaaggaagcc cgtactactc cactgctagg ctatgggacg acgggggtca 349

<210> 54628

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-F9

<400> 54628

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gattcctctg ctagaatcat cagcagatcc aggctattct tattttggtg ccccgactt 120

tgatcaatga atgttttgaa gcaagaacta actgagtgtt aaaggagctt agatcaattt 180

aaggagagcg gttgtgtcaa ggctactctt aggtccacag ttgggtgttt gattttatcg 240

ccagtttatg ttgcacatct tgaagtctgt aaatctaagc cccaacgtgg taatccggga 300
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<210> 54629
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-047-Q1-K1-G10
 <400> 54629

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 gaccctcgcg tcttcttcga catgaccgtc agcggcgccc cggcgggccc gatcgtgatg 120
 gagctgtacg ccaacgaggt gcccaagacc gcggagaact tccgcgcgct gtgcacgggc 180
 gagaagggcg tgggcaagtc cgggaagccg ctccactaca agggctccac cttccaccgc 240
 gtcacccccg agttcatgtg ccagggcggc gacttcaccc gcggcaacgg caccggcggc 300
 gagtccatct acggcgagaa gttccccgac gagaagttcg tgcgcaagca cacctgcccc 360
 ggggtgc 367

<210> 54630
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-G12
 <400> 54630

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 gcgcgtcact atcatgcccc aggagatcgc gtctcgctcg gagcatcacg ggccanaggg 120
 cttgagcgcc cgtcgtgctg ctgcgtgctt tagtggtact agaagtagat ggtggctttc 180
 gtttcgtggc ttccttatcc tgtaggagta atgttctaga tgtcttggtc tcagtgcatt 240
 ggactgtgtt tgctcatttc tgaaatttat caatggactt gtaaaaaaat ataagatgtg 300
 ccaacaccca 310

<210> 54631

<211> 368
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-G3

<400> 54631

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ttcccacagt gaaaaggatg cacctgggtcc ttctnngttc ccagtttggg ggaatgcacc 180
cttctacggt aagtaatcaa agcggctacg tgttcaatgc attgctgnnn cgcattctat 240
ctgctagtta gaaatcaaag cttgtcatat cgttcgtaaa ctgaggacaa actgannaaa 300
tggaatgggt gcatcaggga ggttgtattt ttgtacgggc ttgccgaagg gtcaaaggct 360
agggtgtg 368
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<210> 54632
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-E7

<400> 54632

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gccatgacct ctgtgttggt cctcgagctg ttcttatggt ggaatccatg gctgcgctgg 120
tcttgatgga ccagctcatg ggcgatattg ccagtggtga gatgtttccg ctgaaccttg 180
ccctacaaga gccattggc tctgctagca gtgcatctga actgtcacca aacctatcat 240
aatgtttgtc gtggaacatg tcccagcttt cttctatcg aaattctggt ctttgctaag 300
cagtttgcaa ttcggaacct ccataaaccc tcgactattg tacctagaga taaagtgaac 360
ggatatcaag atagaaatgc attaattgtt ttgtg 395
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<210> 54633
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D4

<400> 54633

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gcagacctgc agtgccagca cggctgccaa tccctgctgg cgctgttccc ggctccgaga 120
tcatttggac tcggcactcg gcagggatgg ggatggggac ggaatggccg ccgacgcctg 180
cgcagcaaag gaaagcgggtg gtgagcgccg ggtcggcgct gaagctggta ctgttcgtga 240
ttctcgcggy cctgcactg cggctgctgg tgggggcccc agcct 285

<210> 54634

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D5

<400> 54634

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gcagggatgc attctaagat gtgctggcaa tccctcgctt acctcctcaa gtatgacaac 120
tcctacagac tacggcactc ctgaaaccgt gaagtttggga cgcatttgcc gaccactcct 180
gaactctgac cgaccaatct tctactcgct ttgccaatgc tgcttcatgg aatgtcccaa 240
atggtgcggc atgtaccgca acagctggag gaccaccgcc caacataact acacatggtc 300
aaccatgctg gacaacatct acctgaacta ctctacgcc cggtagccca aaccccgtg 360
ctggaacgac cctgaca 377

<210> 54635

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-D6

<400> 54635

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ggcaggcca gattccagca gctctgagct atanaaaaaa cggcttgggg gcgagacgga 120
gagaggggta tttgcagtat aagtaccttt ggatcgaaga gcatcactcg aagatgcac 180

gaggactgtt cttcttcttc ctcaagctgt agcctgtggg aggagaggcc ggagaggcct 240
 cccatggagt tccccactc atcacttctt gttgggtccc tgctagctgt tcgttccttc 300
 agcaggtagc tagagatgat cttgctttaa atttgtgctg atctcttcct cgtcgtgtac 360
 gctcatatgc atggggcgac ggatttgtct ctgacgttc ccatgccgcc tcttgtatct 420
 tgacttggat ctatatatca atgcaa 446

<210> 54636
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D7

<400> 54636

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 ggccccggac tctgcccgt ctccagaagc cgaagcagct cccggcaccg cggcagaagc 180
 gcctcctgct gctgctccgg ctgcccaga gatcacccca tccaaagctg acgcctgac 240
 gtcacgctat tattcactca catgtgatgc tgcggctgcg actcctaaac cttaaactca 300
 gaaatagctg gggattgggt ttgcattgca tcgtgttctt gccggtctag caagtgacta 360
 taagaataat ggaataaacg atgaccatt gtgtgtatga ttccattct gaaaaacaac 420
 acattcct 428

<210> 54637
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-E1

<400> 54637

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 atatttatag ttgctctaga tttgaagtta taggattatt tttaattatg tttaatgttt 180
 aataatttga gttgaagtta taagatttgc tttgaatttt aagttaaagg atttgagata 240

tatgggtttgg agttatatga ttatttgatg ggg

273

<210> 54638
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-E10

<400> 54638

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gcacaggatt atctcaaaaa gcagcaggat acggagatgg aacttatttc ggattccccg 120
atccaggacc attctaaaac taactagtgg cgcagctagt ggtgtttata cacagctgct 180
agcagcaaag attctcctct gtagcttaag ccctgcaga tgatttcaag ttccaacaat 240
tagtattagt agttattcat ctgcgcagtg gacaaaaaca tggacacatg gtcttggtta 300
acttgtcagt tgacgacctt ttgtcattga gcctgtacct gtactggcag ctctgtttgg 360
agtcattctg tttattttcg gacatctaca cggataaaca gtanngaatt gttatggagc 420
acg 423

<210> 54639
<211> 219
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-E4

<400> 54639

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ccacgagcca atttgcgact tcgcaatgca aatcaagaaa tcgacgggca aatatttttc 120
tcctgcaaaa aaattgcagt gccatgccat ctctaagac tattcacagc ggcttcatct 180
aaattttacc cctataccac ttttttatgt caaannana 219

<210> 54640
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-E5

<400> 54640

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aagggggcctt cagtcccatg tgggtggcggg ggtgtcgctg ttgcggcagc ttcacctgct 120
gctggcggag ctgctcctac agctgacgca aagaaagaag agaaggtgga agagaaggaa 180
gaaagcgatg atgatatggg cttcagcctc ttcgactagg ctgcacagtc atcacagtat 240
tgtttcgggc agtgaaacca gagggaaaacc agagtcatgt ttagatttta accttgcttt 300
atgttggaag gtactgctac ttgtctttat atttgtaat tcagccgtaa gttgctatgc 360
tggttgggat ttactcggga accagagttt ttctatctta ta 402

<210> 54641

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-E6

<400> 54641

cccacgcgtt cgcggacgcg tgggcgcggg caacggccgg agtcccggcg gtttggttgg 60
cgccgcgcgt tgccgacttg tgtgcttcgg gtgcgtgcgt gtgtggtggg gtacttttca 120
cactatattg gaaaaagaag ctattatata tctttgactg aaaaaaagtg tcgttgtata 180
attatctttt ttttcgtgtc cgtgtatgca acccctcctc tcatagacc atagcgccaa 240
atagtcatcc aatgaatatt ctatctgact ctttgatac ctctctctta gtttaaacgg 300
gctatctatt ctttactc 318

<210> 54642

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D11

<400> 54642

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tggtgcaatt gttcttgacg tgtacacgat ttcaaactgg tctggaacag tgtgggaaaa 120

tgcagtatcg ctggtaggtg aatcagctcc tccagaaatg cttcagaagt tgacatatct 180
 ggctatcaga caccatcctc agattaagcg tgttgacacc gttcgagcat acacctttgg 240
 ggtgctttac tttgttgagg ttgacattga gcttccagag gacttgccac ttaaggaggc 300
 acacgccatt ggagaatctc tccaaatcaa gattgaggag ctacctgaag ttgagcgagc 360
 attcgttcac ctagatttcg aatgtgacca taagccggag cattcaattc ttaacaag 418

<210> 54643
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-B11

<400> 54643

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 gactacgaac cctttggtct ttgacaactc ttacttcaag gaacttctga gtggcgacaa 180
 ggagggcctt cttcagctcc caagtgacaa agccctgctg agcgaccctg tcttccgccc 240
 tcttgtggag aaatatgctg cagatgagaa ggcattcttt gatgactaca aagaggccca 300
 cctcaagctc tccgaactgg ggtatgctga tgcttaaattg gtccatatcc tggagcggga 360
 cacaaact 368

<210> 54644
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-B2

<400> 54644

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 tcgacggcga cggccagatc aactacgagg agttcgtcaa ggttatgatg gccaaagtga 180
 gagcgggtccc cgtgaaataa gtatctatgg attgaagcga attatcaggc acacaagctg 240
 tactttgtca tgtccctttg agtacgcac agtgtcatgc aggtggtaat gtctttagt 300

ggcccggttta ggcgggtgtag tcatgggaac ggcacatcag atacctgggt tcttttgatt 360
 gtgatgttat cttgcattat tgcacctgta ggatttggtg aagctcatat tttccagggg 420
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<210> 54645
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-047-Q1-K1-B3
 <400> 54645

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 aatgtgacac aacttctgaa gataacatac tctcaaaagt ggactttcgg ccaagtggat 180
 tgcctgaagg ttgggtgaaa gaactagtgt acagaaaaac caaggaaggg ttgatcaaga 240
 gagatccgta ctacacggat cctgctagtt cctacacatt ccgcacgctg aaatctgcat 300
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 agtgtcagtg taatactcta ttaccttaca 390

<210> 54646
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 <212> DNA
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 <223> Clone ID: LIB3088-047-Q1-K1-B5
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 taccctgtgc gcgagctctc agtgtctatg tcttccctcg ccccttgtag gaacacgcct 180
 gtgctgatct gatctgatct gacaactaac gtctcaccat cctgaaggaa cacacctgtc 240
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 gcc 303

<210> 54647

<211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-B6

 <400> 54647

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 ataggttcaa agtcatgctg gcgaagatta agaggggagg tgctatcagg caagagctcg 180
 ccaagctgaa gaaggcgctc acggcttaag gaggctcttt ccgtgaatgt catgttagag 240
 tttttgggta tgagttggat cagcaattcg attgagcgtt gtcaaagcca gaattaccaa 300
 tatgttcctt gtaaaccat ttcaacttt atcaagcacg ggcgtgctca agatactttt 360
 gccatgaatg 370

<210> 54648
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-B9

 <400> 54648

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 aagttctttg ggggggtgga catagtggac tggctcctgg ttaacaagaa cgggcgcttc 120
 accggcgagg cttttgtagt cttcccaaca gccatgcagg cagagtttgc gctgcaccgc 180
 gacaggcaga acatggggcg gaggtatgtc gaggtgttca agtgcaagaa gcacgagtag 240
 tactgtgcaa tagccaatga ggtgaaccag ggcggttatt ttgagccgga gtaccgtcgt 300
 tccccgcctt ctccgaggcc taggaagccg tctgaaaata acggcagcat ggagtagac 359

<210> 54649
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-C1

 <400> 54649

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 aggactagga ggcagtagct gatgtgcac aaatagtgt gctgtagcct cattgaagaa 180
 taatagccac tgacgtgctc catcattgta ttcggttcca tgtaaattat ggctgctccc 240
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 a 301

<210> 54650
 <211> 274
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-C2

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 aaatgtcgca ctgcagagag ttgactgaaa gtgtttctgc gtcgtctcga gacgcatttg 180
 ttgagacttc aaacttcgtg tcgcagactn taaatttcgt gtttcggact taaaactcta 240
 aacatcgtgt ttcagacttt aaacttaatg tttc 274

<210> 54651
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-C3

<400> 54651
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 nccttactaa cacatgttat ccaacaatga ttttattacc aaatatctta ctgctaaaag 120
 ttactctat accatatact acctcttcaa gacgaatttg ttgaaactaa aacctaaagta 180
 ctaaaaacta taaacttaaa tgcattgaaat aaaaaacta aacctcatt taaaaacatt 240
 aaccactaac tttcttaaaa aaataataa 269

<210> 54652
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-C6

<400> 54652

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cactccatgg tacttgcaact ccacatctac gaatatacgt acgccatctt tctttgtctt 180
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actatctcgt gtacaatgga ccacacatgt cgaaactaca cttgctgtct aaagcccttg 300
ttgatttcta ccggaagcga tgtagtacac tgtacacgct gtaccactga tgatacgaaa 360
tgcgagtagg attactcaat tctttggcat cttgtggc 398

<210> 54653
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-C9

<400> 54653

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caatgcaaca cgtcatgcaa aaccctcagt ttgtgtcaat ggcacagcgt cttgggaatg 180
cccttatgca tgatcctgct atgtccagta tgcttgagaa cttgaccagt ccagctcata 240
aggagcagct tgaggagagg atggcccgtg tcaacgaaga tccatccttg aagccaattc 300
ttgatgagat agagaatggg ggtccatctg caatggtgaa gcattggaat gaccct 356

<210> 54654
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D10

<400> 54654

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aacagagacc atgatttgca gtctacttct gttttatcgt gcaatacctc agcaaaccct 180

gcctacatga tgcgatcgaa accggagacg ttcttgggtc aagcttcggt ccgtaaaata 240

aataaatccg aagcacttca aagctctaca tactctccct tgcttggttg atacaagggc 300

ttgcgttctt gctgcattct atccgagatg attgtaatcc caacaatgtg tagttaataa 360

aaattgtcgt tttccctgaa aatgttttaa cctgtaaaca tcgctctgta 410

<210> 54655

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H1

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tgccgggtgcc ggcagatctt catggacgag gacgccatca gcagctgctg cggcaacggc 180

gcggggcgccg ccgccgccac cgtgcgcggc aggcggcgag tcaagacaag acaaggatgg 240

gaacgtgaat gggagacgta gcttaggttg tgcaccagat gaccagatct tcttcatgga 300

aacttgatg gggagacgga gacaagacaa ggatgaagat gatgaacaca gtgtggaaat 360

gtctgccagc tcatcccccg tgggggtccc gtcgcatgcg cagcacagta atagtacgtg 420

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<210> 54656

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-046-Q1-K1-H10

<400> 54656

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 ctgagcttag actgcacaac agcgactcgc cgtgcctcgc tcccgaacgc ggcccagcgt 360
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<210> 54657
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H12

<400> 54657

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 ccctagggct ttcgctggag gacgcggagg gccacgccc tcgcttcttc atgtggggat 180
 tegcgtgcct cccctacta tgggccatca actgctgcta cttctggccc gtcctccgct 240
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 caattggctt caccatcttc tgcgttggtc tggtcacctg ggccacgacc ttcgtcgtca 360
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 agcttggcat ctctggattc atgg 444

<210> 54658
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H2

<400> 54658

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 cgagatccag acctccgtgc gcctagtctt ccccgagag ctcgccaagc acgccgtctc 120

cgagggaacc aaggccgtca ccaagttcac cagcaactga gcgcgctgcg ggatccgcgg 180
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aacttgaaa tctggttaatt 380

<210> 54659
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H3

<400> 54659
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gcttgtcatt atgaggtcac cagaactcag cacaaggaaac taaaagaaat aagaagaag 180
gctaaagagc acttgaaaaa cgccttgaat aaacaaaagg ataaaccaag tgaagcaaca 240
gaagaactag atgacgaatc gttgctgata gctgtcccg gtagtgcccta ctccttagga 300
tttcctggca acggatctga tgaaaaggct gctgaatagg gcatgtttca ttaccttga 360
ttattgttca aaaagggcgc tgggtattttt tagctcgcgt cctttttttg gacatgttaa 420
atgcta 426

<210> 54660
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H5

<400> 54660
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gtctcaagcg gagtgttatg tgcttagcaa gttctatcta tcatagtgtt atacgctaac 180
aaacacttga aaaacgcctt gaataaagca gaaagataaa ccaagtgaag caacagaaca 240

actaaatga

249

<210> 54661
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H7

<400> 54661

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ggggatcgag cgcgagtctg aaagcctact cgtaaacttg acaacactgt gagtgggttag 120
tcatcatgac gtcaccagaa ctctgcacaa ggagctaaaa gatattaccg agcaggctaa 180
tgatcacctt gatgaacgcc ctgcttaatc ataaggatca acctagtgat gtcaccagat 240
gacgtacatg acgaatacgc gctgatagct gtccttggtg gtgcctactc cttacgaatt 300
cctgacaacg gatctgattt aaaggctgct atataaggca tgattcattt accttgatta 360
tt 362

<210> 54662
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H8

<400> 54662

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gtgagggcat gacatgtgcc ttcaccagtg gcaaggatcat tctggactct gcaattgtga 120
caacagtggc cctgctcagc cttaccgcat acactttctg ggccgcgaat aggggcaaag 180
acttcagctt tctgggtcct ttctgttcg ccgacctcat agtgctgctt gtgttccac 240
tcatccagat tctgttacca ctgcgcatgc tgtccagat gatctacgga ggtctggcgt 300
cgatcatctt cagcggacac atcgtctacg a 331

<210> 54663
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H9

<400> 54663

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ccctgggchg agcccttcag gccttctatg acgctgtacc gatggctggg gaccatggag 180
gcgacggctg agcatgatga tgaggactct ttgcgagagt ggtggcacct ggtgtgcgtc 240
tgcacgaact 250

<210> 54664

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-A1

<400> 54664

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ggagcaactg angaagaact atgaggagac aaaagagcta ctccctcagg ttgctgggtca 120
caaggacgtc cttgaagggtg atccttatct gaagcagcgt ctgcggctgc gtgagtccta 180
catcaccact ctgaacgtgt gccaggccta caccctgaag cggatacgcg acccgagctt 240
ccaggtgagc ccgcagccgc ccctgtccaa ggagttcacc gacgagagtc agccggcgga 300
gctggtgcag ctgaaccagc agagcgagta cgctccaggc ctggaggaca ccctcatcct 360
gaccatg 367

<210> 54665

<211> 68

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-A12

<400> 54665

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cgacctga 68

<210> 54666
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A2

<400> 54666

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cttcgtcaac tataaagctt caattgaaga aaagtgcctc catcttaagt ttggttgact  180
actataggac atgcagcctt gtggttagcta tagtagtagt agatatttat agttgctcta  240
gatttgaagt tataggatta tttttaatta tgtttaatgt ttaataattt gagttgaagt  300
tataagattt gctttgaatt ttaagttaaa ggatttgaga tatatggttt ggagttatat  360
gattatttga tgg                                                    373
  
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<210> 54667
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A3

<400> 54667

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agcaacatcc tcttcatcca gaatctgccg gaccagacca cgagcatgat gctccagatc  120
ctgttccagc agtaccctgg ctcccgga gtacggatga tcgaagctaa accaggcatc  180
gcttttgtgg agttcgagga cgacggccag tccatggctg cgatgcaggc tctccaaggc  240
ttcaagatca ccccgagaa ccccatggct atatcctatg ccaaaaaatg agaaccctag  300
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<210> 54668
 <211> 238
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 54668

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acccatgagc cgccgcagca aggccagggc ctcagcctct cactcgccaa cggcagtggc 180
aggtctggaa tgttgccgat gtcaaacatg tcagcttatc cttcacagct tacaattt 238

<210> 54669
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A5

<400> 54669

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ttctgcaagg tttgcggtta gatcaggatg taatggatgc tccgtttact tcaaaacttg 120
cttaatttta tgtcttgtaa taatattcga aatgatgtta aattttaaca tttgttgaag 180
tgtttagggc atcatgatag atgatacatc tactatctat cattgtaaca tgcttgttgt 240
aatgtgtatt tcatgcctca tca 263

<210> 54670
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A7

<400> 54670

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agtaattcat ggtgcatgcc acaaggactc tctcataggt gatcctgata ttactcacct 180
tgtggagaaa cgctacctct acaagaccac tctatacatt ttccattcct acacccttta 240
aatcata 247

<210> 54671
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-A9

 <400> 54671

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 tatcttgttg gaaaagccct ttgggtgcaa tcagaaattg gcagggaatt ccaacatgga 180
 tttcttcctg ccatccttcc actgtcgacg aaatttgctc ccaactgtaat gaacatcctg 240
 aagagattag ctgacgcggg tcaagaacct gcagcagccc ccgagaggca aagagagatg 300
 gagctccaac caaaatccac caggaacggt tccttatata agaatgtgac atcggggaggg 360
 tcatttatcg taaccac 377

<210> 54672
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-G9

 <400> 54672

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 catgggttat gtggaagagg atctggtttc taccgacttc cttggtgaca gcaggtcgag 180
 catcttcgac gccaaaggccg ggatcgctct gaacgaccac ttcgtcaagc tcgtctcgtg 240
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 gacccagtag gggtttttcc cccctgcttc tcatggatgg ttgctgcttg tgtatgccga 360
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 tttgcacttt t 431

<210> 54673
 <211> 410
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F12

<400> 54673

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ttctcggtgc aaggcattat tccacccctg ttgatgtgtg gtcagttggt tgcattttcg 180

ctgaaatggt gaaccagaag gcgctttttc ctggcgactc tgagatcgat gagctgttta 240

agatcttcag aattttgggc actccaacta aagaaacatg gccaggcggt acttcggtgc 300

ccgattacaa gtcaactttc ccaaagtggc cacctgtgga tcttgcaacg gtgggtcccga 360

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<210> 54674

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-046-Q1-K1-F2

<400> 54674

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gagcnctatg cgtctctaaa gaccagcgca gaagccaaga aagcaagttc gaccagaacc 120

ctctggcgtc cataagttaa cattcatggc actcaaggcc aagaagctgt tcttaccatg 180

cgacgatact atgcacgcct gcaagaagga ctgctgggtc gtcacggtgta 240

tgatgtgacc aagttcttgg aagaccaccc tgtatgagag gatgtgctta tccatgcac 300

agcctctggg gatgccacgg aagcattcta agaggtgaga cacagcactt taaccgtcag 360

catgatggac agctacttga ttggaagcca taaagactat gttcgtccaa tg 412

<210> 54675

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F4

<400> 54675

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 tccacgccta caggaaggac tgctgggtcg tcatcggcgg caaggtgtat gatgtgacca 240
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<210> 54676
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F6

<400> 54676

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 tccacgcctt caggaaggac tgctgggtcg tcatcggcgg caaggtgtat gatgtgacca 240
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<210> 54677
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G1

<400> 54677

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 cagtttccgt caacctgaca tgcacatgg aatggagggt cgccttggtt tgtccaaggg 240
 acctatctgt cctagcttca attgaggcag taatgtaatt ctgctgcaag ttcacctctc 300

agtccagtac ttcagtcaat agaccatatt aagatgggtga aatatgaaaa ctggtagctt 360
gcactctgttc aatgttatgt tttaatcaac gctgaattta 400

<210> 54678
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G10

<400> 54678

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gaagtatgtg cagaaaggct gttccttttg aggttgatgt tgtcatcttt taactaaggc 180
catttctatc atcctgaatt caagagatta ttgagaaaat cttccaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaataa catcgcgagc tttaaaaata tcaa 284

<210> 54679
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G11

<400> 54679

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ccctgggcgg agcccttcgt tccttccggg gcgcggtacc gcggcctgcg gaccatggag 180
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gaggacgacc tggacgacga cgtcgacagc ttctacccg acgacttctt ctgcggcccg 360
gccccgcgcc acgagagcga gcgggaggac gccgtgggca ggatggcggg ccgagggctt 420
gaggtggcgg cgttgggc 438

<210> 54680
<211> 435

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-G12

 <400> 54680

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 catcatcatg tgccagagct tcgacatgcc ccacctgcat attatcgacac tttgggtcca 180
 tctggtgatt catactatcg gtctgttgag aatctggtgc ctgagcgata tgcagacaga 240
 accatggctg acttgaccac tagagatcca attattaggg atcacacagc actaccaggg 300
 gaggcacttg ctcgagcaga ccgcttggat gatctctacc gttctgatcg tgtggaggaa 360
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 acagctgctt atgag 435

<210> 54681
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-G2

 <400> 54681

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 ggtgaagaac ttgaggacct tttgatctag cttgtttatt tctctagttt ttgcgtcttg 180
 atattgtggc tagtttgggg cttcgggtct ggtgggttgt ctagcccatc agaacgcgta 240
 atgggtattg gtcttccagt atgttttcag cgtaatttg gctaatttcc ccgcttggct 300
 tgtacaacaa attttatcag tactgactac catgagttgt actgctctat atgctgcttt 360
 ccactc 366

<210> 54682
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-G3

<400> 54682

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caccggtga cgtatctgtg gcaggatcct cacgaacagc aggagcaagc tcctgaagag 180

cagcactctc tgcataaag ggactgagga tgctgctcaa gctatcacct gatctttcag 240

agctctcatt ttaggttctc taaactgcag gtttcggtg gctaataatc gtgggtatca 300

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agggataatg attagcggct agtggattaa agttaccca 399

<210> 54683

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-046-Q1-K1-G4

<400> 54683

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gcacgattgg tttgggatta tccaatcaaa gaactgttct gcacaccttc agagcagaaa 180

caggcgtcat gttgtggggg gagggcacia gagcagtagt gtcggccaat gcagcaggaa 240

accacgcgtc gtttggctct ttggctcgcg agcttggaag gcataatcaa ttgttcttta 300

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tgatt 365

<210> 54684

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G5

<400> 54684

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tcgctttggg acgctgtctt tgggacattg cctccatcca tgacgtctgg gaagaagaac 120
 tgacgcacgt aactcaattc ttggcatgag agattctagg ggacctgtaa tatatattca 180
 agctagggat aatcctggat ctgtcttcgt gcgatgggtt gacatgttca ttcagttctc 240
 gaagttcttg tagtgtactg attgtctgtt gatctaaaaa aaatcacctt taaattcaat 300
 acttttagtca atagaccata ttttaagatag agaaatatca aaacaaaa 348

<210> 54685
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G6

<400> 54685

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 tgctagtatt gaaccaacac ggtttcctcc attgctggat aaaaatcaat ggaatattac 120
 caagattgta gctgagcatt aaatgctata tatgtacctt aattgctact ataggctatt 180
 ttgacgagga cataccta at cattcaagtc cataacttgg atgatatgca ataacatgcg 240
 cacattactt ctagctggcg gtaatgatga gtcatgagat gtatggagtt tcatcggaat 300
 gaaacatcgt cacgatctga ctcatattac agaaactact ctatatgctt ctttgatttc 360

<210> 54686
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G7

<400> 54686

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 gagtgttctt ctgtgaattc accttcgaat tgccgatcga atcatgatac gcatgacgac 120
 atgctagaac tgttggggccc tctgcttggc actagttcta tcgctaggcg taaagaaata 180
 cttgctgtca tactaactgt gtctaggctt gactttacac ttgactagtc aactgcttat 240
 tcagaagctc tatatgaatc tgaacatgga 270

<210> 54687

<211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-G8

 <400> 54687

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 ccataccgcg ttcgccgctc catttgatcg aattcccgat ggcgccaag gccgacaaga 120
 agcccgcgga gaataagccg acggaggaga aggccgcgaa gaagcccagg gcgcagaagc 180
 gcgtgccggg caaggagggc cgcgagcaga aggggaagac gaaggcccag agaaaccgcg 240
 ctgacgtaca cgatctacat cttcaacgtg ctcaagcagg tgcacccgga catagg 296

<210> 54688
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-F11

 <400> 54688

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 cgggagatag ctaaattgggt aatgcatcag tatcaccttg gaaaagagga agatgaaaag 120
 gacggggagc ttgtagtatc taaaatcttc ttccagtgg caaataagag tatggaaatt 180
 tctgaaacag aaactgcttg tgaagaacct gaagcacctg cttcagtgat tgggtccgaaa 240
 actccaaaga caatcacacc gcagccacgt catcctaaaa gtagtccatg tgaaactcag 300
 cagaatattt ccattgtgca ggatcagcta ctactggaca gcgaaagcga gcctaccatg 360
 cctattgtta gtctggagga tgatgctatg aaccctgcat ggtgtgc 407

<210> 54689
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-D5

 <400> 54689

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cagagactga agaaaatgct accgcggacc agcctgcccc cctgagcctc gaggagaatg 120
 tttctcaaac cgggtgtgaaa aaaccaaccc cggtgaatcc agcaaagaag cccagagga 180
 agtcaactccc cagattgccca tctgaagaaa ccggtccgct tgatgccacc tcaaggcagc 240
 taataaagag cgccaagctg gatgcagtta gtgctctgga gacaggatca gctacaggac 300
 aggtacaact acaaggaagt gagacggaaa cagattctgg tcaggggcca gttgaagc 358

<210> 54690

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D7

<400> 54690

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 agattttgca atatacttat cagctaagat tcatgtagtt ctcttataat gctatataat 180
 tagcacaata cagtgcactc agtttattat ttcctgatga aaagtgagtg atatagccac 240
 tttatttgga gggtttttaca caagatagca tgtaactgaa atactaagat agtatgaatc 300
 aataaatgca catgctgaat tggcttcgct ggtagtttt ggctacaaac agataaggca 360
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<210> 54691

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D8

<400> 54691

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 agattttaacg tgtagacagc ggtagctgat cgaggaatta cggaagacg agcaaggata 180
 tcaccacaat gacccaagg cagcagctgg agcatcaccg ggacagccgg tcttaggagc 240
 tc 242

<210> 54692
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-E1

 <400> 54692

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 aaaaaaaaaa ggggatgccg ttttaaaggt tccaagttaa cattcatgta cttgcaacat 180
 aatacttttt aaataagcac actaaaattc aattaattga ccatttttta aaaaaaagtg 240
 aattgtaaaa accctttatt tcccaatttt aacaccttat aacaaaatac ccattttcca 300
 agatggcata aaaccaaaaa ggccc 325

<210> 54693
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-E10

 <400> 54693

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 aggaaaataa aaataataaa aaaaaaaaaa ataataataa aaaaaaata taaaataaaa 120
 aaaaaaataa aaaatttaac ttataacaac tctaaaaatg gatttggtta atcatgatcc 180
 atgacgaaaa tgatctaact tgataaataa aaagcttgct cttttatata ttatgattta 240
 acattttact aaaggtactt tcaaatttgt aacatgttga aattgtgatg aatctctaag 300
 atcacttgca tattagcgtt gatgaattca gctctcattc aatcgtcaca gttgaa 356

<210> 54694
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-E11

 <400> 54694

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gttgagaacc tgggtctgggg agagctgaac cggtagcagg actctgcagt tcgctcagca 120
taactaaaca ccagcaaaaa aaaaaaaaaa actttctgaa catacgtgta tgtttagt 180
cctccgacga atgtaacttc caaatataaa aaaaaagtgt agggaaaata acgaaggctc 240
gacacggcat gcccgtattt tcctatggct ggcgataata ttgagatccc tgaaatgggt 300
ctatgaaaaa taaacaaagg ccctgctgat tggcaaaaca aaacagaacc catggatcta 360
cgagaagtaa acattgaaaa gttttacatc aaacctt 397

<210> 54695

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-E12

<400> 54695

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggaagaaaaa 120
aataaaaaga aaataaaaat aaaaaacaaa tatagaaatg agataagata aagaaaagaa 180
gacaggaagg aaatgatcta tgtcgataga tgaaaagctt gctgtctgag aaaacctggt 240
tgaagattat actaaaggta cttcaaaata tgccacatgt tgaaattggg atgagtgtaa 300
aggggcactt acatattagc gttg 324

<210> 54696

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-E2

<400> 54696

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ccccaaggaa aggtgggtga ctttgttagt gtaaaaacca gaagttttga atctatgtat 120
gttcattaat tttgacaaga actcttatca ttatgaaatg aataaaaggg aaaatgatgt 180
gttgtttgaa aaaaaaaaaa tatgacaata taacacaaac cagaacgaca agtataatta 240

ctacaaaaaa aactttctaa ttgaacgatac tctgacatac tatatatgag caacagatgt 300
atgtccgaag ctt 313

<210> 54697
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-E3

<400> 54697

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tactatattt caagaagatc caattgaacc aaaaactgga ataaaatttc caacatttct 120
ggaagacgac tccagtccat ctgcagcggc ccttggtggg atagggttca aaggcatgag 180
agtgatgagg gtcaaaaatc tgaacctcta cgcttttggg ttatatatgc aaccgacttc 240
tatccgtgag aagctgggtc ctaagtatgc ttcatttcca actgacaagc tgatggagaa 300
ccctgatttc tatagtgate ttctcaggta tattgatgta tcattttcat catatttctc 360
agcttctttt gcttaccctt aggttccatt tgtaaaggag atttttgaat ct 412

<210> 54698
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-E5

<400> 54698

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gctaactggc atcaaactcg caacattgct ggaatacgac tgcattccat ctacatccat 180
ccttggttag ataggatgga aaggcatcat agtgatgagg ctcaaaaatc tgaacctgta 240
cgctaacggg atatatatgc aagcgacttc tatccatcag aagctcggtc ctaagaatgc 300
tgcattcgca actgacaagc tgatggacaa ccctgaatcg catagtgate ttttcagcat 360
attg 364

<210> 54699

<211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-E8

 <400> 54699

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 cgaatgtaaa gaggagctga gggccatgga agcggagaag gcggaaatcg accggactgc 120
 ggcggtctcg atgcatcgcc agctgtggtg cgaactgacg tacctggtga tccaaacagc 180
 cggattcatg cagatcaact tctgggagct gtattgggac gtgatggagc ccatctgctt 240
 ctacgtcacg tgacatgtac ttcattgagcg gatacgcctt cttactccgc accaagaagg 300
 aaccgtacgt cg 312

<210> 54700
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-046-Q1-K1-D3

 <400> 54700

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 atcatgttcg gcatcgccag caccttcgtc ggcctctccg agggcatggc caagtacggc 120
 ttcctcgccc tagccaccgc ccttgctcgc tttgccggtg tgtatgcccg ggcaagggtta 180
 accataaacc ctgacaaggt ttaccggctg gctatgacaa aactcaatac atctgctgca 240
 atccttgaag ttatgggtgc gccctaact ggtactgatg tcagagcata tggttatgtct 300
 ggaggaagcc cgaaacctga agacttcaaa tttaagcttg gcagtaaacg gtgctntctc 360
 attttcccca tcaaaggatc agaaagaagg ggtcttgtaa gtgttgagtt caagaagaaa 420
 aaggacagt atg 433

<210> 54701
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3088-046-Q1-K1-E9

<400> 54701

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cttcatcaac gacatcttcg agaagctcgc cgccgaggcc gccagctcg cccgctacaa 120
caagaagccc accatcacct cccgggagat ccagacctcg gtgcgcctcg tctcccccg 180
cgagctcgcc aagcacgccc tatccgaagg gaccaaggcg gttaccaagt ttacatctc 240
ttaggggtgcc gccgcacgtt gctacgatcc tgtttaattc tcatatttag gcctgtgcta 300
ggttgcttct gcaacaatgt agaatttggt ataattgctg aatgaatcag ttaccctgt 360
tgaagtttct aatatattgt aatcttgcta gtataatttg cttcaaacct ggatggngtt 420
tccattcgct gtttaaa 437

<210> 54702

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F10

<400> 54702

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gggagaagct cttaaagggg tctgaggcag gtgctgctcc ctcttctaataaatatattc 180
ccaaatttaa aaggcaagat ggtcttcctg cacgacagga tgcaccccca ccccgccaag 240
atggccctcc tccgtctact gaccgctggc gtccatcaag atattcctca acctcttcgt 300
caacctgggg gcgggcacat aactgatact ttttttttat tttgctgact acatttataa 360
ttttggagct tgtctcatag gctatcgac cttaccgttc actatactcc atgcatattg 420
tcggtagttg ctgactgcat t 441

<210> 54703

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B6

<400> 54703

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ccttgatgga tggattagct tcgctaatgc tttagtttgt tgctgctgct gcttccgttt 120

gctactgatg atgctttttac tgtattttac tacttttagtt tgctcgacaa actattgtga 180

tgatggataa agtgtgttgt gatggtgg 208

<210> 54704

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B7

<400> 54704

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gatgatcgac ataatcaggg gaccaaaagg gatggacctg acgcaggaat aaactacaga 120

gaagatgaag agggattaca aaccagagcg gatgatgcta tgactgagat tatactacct 180

ggactttatc tcgtacttct ggtctagtag atgccatcat cggttgctgg actgctaagt 240

ggactatagt gcattgatgg tctccacgct atgc 274

<210> 54705

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B8

<400> 54705

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tatgtttctg ttgccacctc ttcagggcaa caatgcacag gacagctacc agatccgggc 120

agagcaacta gatgaggagc cggagaggtg gagcaaagta acagtgatag agcaggcggc 180

caaatgacag accgaatggg caaaacatct gatggctgaa cttaaaaatt ttagacttgg 240

acatttgctg gagatgggac tgggatccca atctcccatt cagaaatttg tatgaattca 300

ggattcctaa cagctgcaaa atggtggaca tgttaaata tagaattccc agcacaacca 360

tcggacagaa ttgggctgat tttattcact attgtgaatt gatcatgtgt ttttactgat 420

atac

424

<210> 54706
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B9

<400> 54706

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gataacatct ttagtcgtcc agagttggca atgtttgtct gattaacggg acctcatggt 180
gcagctgctg aagcgttaca ctggatttag gaccaatcct aaggctgcag catgccaaatt 240
aatccatcaa gatcctatat tgtgaaggac aaatgacaat cctagcgcgc tgtcatcttt 300
ttatgaatat tacgcgttgg gcatttaccg tgttttataa ctttgtatta cacatggatg 360
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gg 422

<210> 54707
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C1

<400> 54707

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aaaaaaagag acacttccaa ttttaaatgca tatgtaaacc tacaaaagat gttcatgtag 120
gaccatcaac tccaaaaaat tattagtaat gtctttacta caagaatcac cctccatgtc 180
catgcataaa ctatcaacaa ccacacctca aaggcaagtt ctttcaaatt tatacccgta 240
caatctaaca cttacttaat accaacttaa atattatata aaaaatataa caaatttatt 300
atgtacaaca ggtttctaga gcattagcct accatgcatg tcaagaaaac acaccagagt 360
atttcaattt tacttcgccc tcttttttaa cataatatac atatcactgg ttttttagcat 420
accacctcat gct 433

<210> 54708
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-C10

 <400> 54708

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 gcaacaggca atttttctgt ttcataatca actgggtctg atatgtctca taccaactaa 180
 tggccgtgag aatgttattt aggcttatat aagttataca gaagatattt cgttatgata 240
 atgcacaaaa gttatggtgt gcaatgaaag gtgcaaatg tgttttccac cctggatagg 300
 ggtcgtggat ttctaagtct tgacgagggtg taccaggcat taatcaaact tggtttctctg 360
 gtggattcac caggcttcta tacttggttg gagagctttg acaagagcaa gaaaggcatg 420
 attcaattgg atgagtt 437

<210> 54709
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-C2

 <400> 54709

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 tcatacagtt tgagatgagg acactatgta tactgtttga gacgaggaca ttatgtatac 180
 tactctagaa ggctaccgaa accaaatattt gcatctgttt attaaaagct tgtacttcta 240
 aaaaaaaaaa ttagataaaa aaaggactgg aatacc 276

<210> 54710
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-C3

<400> 54710

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ggacttgat tgctttctgc cttatggcac ctgtagtagt gaactgatga aggaagttca 180
tgcggtactct gaagctttgt tggcttagaa tggtaatttt gctgtattct atttcacagg 240

<210> 54711

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C4

<400> 54711

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gctaattgggc tatacagaaa agctgatgaa gctgaaccga cgacactaca cgtcttgatc 120
acatgaaaat aaacgctgca agaattgtaca gattgaatat tgacgatttt ggctctgaaa 180
attaggacac aaacctggaa tggcatgctc taatttgtaa cccatgggat attgtatttg 240
tatgccataa tttcctcaaa cgtaaacgaa attgtaaatt catggccaca ttttacaac 300
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<210> 54712

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C8

<400> 54712

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aattctcaaa aggaagcaaa atcttgccca aaaaaaaaaa aaaaaaaaaa aaacaaaaaa 120
aaaaaaaaaa aaaaaaaaaa tacaaaaaaa taaaatccaa aaaaaatctc atgaacatac 180
aaaattcatt agctaacatt ataagaaacc catatcatac caaccacaca ta 232

<210> 54713

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C9

<400> 54713

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gtcaaagtgc ctgcatgaga gtcacagagc tgagctggcg ctgatgggtg agaggggcaa 180
gcgtgcacac atcgaagccc tctactccca cgggttctgt ttcttgggga agtacatcgc 240
gagaaagatc gtgcagggct attacatatg acgattggcc gctggaatgt tagcatggtt 300
gcacggaaca atgagctgca tggactgtaa tacagtagct atatatgtcc aaccgcctgt 360
aaactgaaac gatggtctgt atgggaatgt atataaatac agcatgagat tagct 415

<210> 54714

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D1

<400> 54714

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ggaaaaaagg gacacttgca ataataatgc ataatgtaaa actacaaaaa agggcgatgt 120
atgaacatga tcctagctta aattctcagt catgccacta ctacactaat cactctggat 180
gcccattcgt aaactattgg caaccacatt tcaacggcaa gactgttaaa acctataccc 240
ttccaatcta acacttactt cataccaact tacatattat atctgacata ttaccgat 298

<210> 54715

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B4

<400> 54715

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agactaacgg tataatttaa aaagacaact attaaaaaca acaatacaca aaacaaacta 120

ccaaatccaa tcagatacaa ctagataaaa gaaccgaaac agtaaaggca cagtcacatt 180
tatagaccaa gcttccaaat gacagaccga atgggcaaaa catctgatgg ctgaactcaa 240
aaattttata cttggacatt tgctgtagat ggactggta tcccaatctc tcattcacia 300
atttgatga attcaggatt tctaacagct gcaaaatggg ggacatgtta aatcatacaa 360
ttcccaacac acccatctga cagaattggg ctgattttat tcactattgt caattcgatc 420
atgtgtcttt actgatatac a 441

<210> 54716
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D11

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acacagatgg tagtgtcaaa ttcagtagct atcgggccat cagcctgtat gcttaggtga 180
tatgggacat caaggctagc cctgtcgtgt gaacgtgtag attgcgattg atcacctaac 240
gtagcatgtt aggggtgctat tatagtatgg aggaatcttg acccactgag cttgacgccc 300
acttagcaat gtaggcattg aacaagaggc acctatctcg atctacagcg ctgtgtatta 360
cgaattgggtg cgactatgtt gctctatctt cctcaggctt atatcttatg aaacatgata 420
cttttgatct gtgc 434

<210> 54717
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D12

<400> 54717
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gagtgtcttct gtgatggtaa ttcgtatgag agagtgtccc ctttgggtggc acttcttctg 120
atgtagtatt aactcctgtc ttaatatgtc gcctgtcttg tgcttttcat accatgtttg 180

ctcttttcagc tg

192

<210> 54718

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-046-Q1-K1-A10

<400> 54718

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gcttcctcta aagctcggag cgagtctcag aagcgatggc gtccaagagg ctgctgctgg 120
cggcgctgtg cgtgggtggcg gcggcgctgc tcgccgtgcg gtcggaggcc cacggcctgg 180
aggacttcgc aagcagcgac gcgacgccgg agatgcagac cttcttcaag cccgaggccg 240
cggcgctccc ggaggccctg gacgcgtcct ccatgcccgc cgccaccatg gccgcgaagc 300
cggaggccac gtcgatcccg accaccacca ccggcaccac ggcggcgggc ggcggcacct 360
tcgccgcggc aggcactact gctgcgtcgc cgccgcgcag gtccgtgtcc gtggccgncg 420
gcgtggcctg cggcgtggc 439

<210> 54719

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A11

<400> 54719

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gccaagcctt cccactgccc atcattccat cattcccaag gtaaaccctg ccacgttccg 180
cacatcatct gaatcatgtt ctgcagtaaa gctcccacct gccagcccct tcgataactt 240
cctgaaggct gcctatcgca ccagcccga gctgtgatcg atttacctaa gaacaacct 300
cttcacgagt gctaggctgc agtaccaaaag catagggtac tagattatct aaaggaactt 360
atctatgacg ttgttttagt tgtagtagcg taactatgtg tatctatcta ctagatgtct 420
gtaacgtttg catatgtatc 440

<210> 54720
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-A12

 <400> 54720

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 tgcagcgtaa gtagatcaac gtctacagat atcacgcgca tcgacgatcc aagaacaaca 180
 gcagcaacat gaattgcata ggagacctca ccatcacatc atgaggaagc ctctgctgac 240
 tcaatagcta aattactgac accatgcatg catgccatat cactatgaat ggtccagcgg 300
 taccctacc atgcgtgcct tttt 324

<210> 54721
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-A2

 <400> 54721

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 cttgctgccc tgttccaagt aaaaaaaaaat ctgaaggagc tcaataccgc tggccgcccgg 180
 cggacgtccg ccatggttga agcgccgtcc gtgaatcaat cataaatcag tgtgcttggt 240
 tgggggggat gatcgtagct agaatctgcc ctttttctc ctcccgtttc acctttttct 300
 ctacgcttat ttctgccttc ctttcagaaa aaaagaactt ccttgaatgc gaagtttggt 360
 atagtaatta tgaatagttt ccataaggga ggagatggtg gggccttctt catagccaac 420
 ccaccaata gggggggg 438

<210> 54722
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A4

<400> 54722

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ggaacctgag gttgcaatcg tgcatttccc ctgggatggt ggatgatctt gaggcacgtg 120
agcctgtcgt tgaagatgca aggttaccta cttgtacgac gtacgccaat gcgacctgtg 180
tagctgtgag tagtctaattg ttgcagtgc atgtaatggc gcacccccgt cctactaaca 240
gatgcttact ggagattgcc atagctgac ttgtaatttg ttatagggca gtatgaatat 300
atttatggta gcttgaatct atttgtggat tcacttcggt tttcc 345

<210> 54723

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A5

<400> 54723

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atcaagatat tttcatcgca ggcgacatgg ttcgatcaga gtaagccagt attcaagatc 120
ccggattagg gagcatcgcc gtgctgtttt tgatagtggg aatgaacaaa gcactgctgc 180
atgtcctttg gggattcatc aaactggccg atgcacctgt gattctttct tggttgctga 240
agaatctagt gcccagagcaa gtatatcaag aattgtcatg ttaactgagg cgttatttga 300
gggtgttgat gaaattcacc gtcaacctgc atcactttca ctttccatgg tctctgttca 360
ggctcctgaa tctgtagtca attcgttgcc atgcaagagc tacaaaaagc ttgaggcacc 420
ccaacg 426

<210> 54724

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A6

<400> 54724

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gatgcagcag agcagcaagg ggagcgggtc gaggccatcg tcgtcatcgc tgggtaccagg 120
cccagcgacg gcgacgggga agaaggcaag cttcttaggg tcggtgtcgc ggacgttgag 180
ccggctgaac ccgtttaagg gcggttgggc caaggacacg accagcattg ccgatgggcg 240
agacaggact tgcattgatg tgggtgaagcc caagaggagg aagttctgca tcggctaatt 300
cttttgtgaa atatcgatat ggaacgggta tcgcgtgtgt gacttatatt aaatcact 358

<210> 54725
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A8

<400> 54725

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actgaatatg tatagtgatc cactggcgca gaagtcagat tcaagattca tttcgtctat 120
aaaaagtagt ttccagaaaa aaaaaaagaa aaaaaaacac caatgcaacc tgaagaaaac 180
tgagaataaa ctaatgatgc aaagacatgg aaatggctca ccaggagtcc tagttacaga 240
tgcttactgg agattgcata cttgatcttg ttgttagtta tatggcattc tgtagatatc 300
catgagtaac ttgaatctat ctgaagattc aactggactg accggaaaaa cctt 354

<210> 54726
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A9

<400> 54726

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ggctctggtct caggaggttg tcatgtcagt ccagtcagc agggtcagtc cttgggctgc 180
attaccagtg gtgcagcttg gtcggtgggc agtcttgaag gtcagccggt tggatcattt 240
gggctcttgc tcccaccagc accacctctg gtgggaggca tcaggcatgg agtcgcggt 300
gttgctcagga gttgggtttt gcctcctata cagcataaat gaattatatt gttttacctg 360

ttggtagaaa gaaccttgaa agatagggaa cgtgctgttt tttgtcaaag cggttcctgt 420
gctgtataac atg 433

<210> 54727
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B1

<400> 54727

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ccaaatcaaa atgggatgaa tcttctcatg ccacttttat cttattcaag gcgctactaa 120
gcatcaatgc tagggggtaa ataaaataac ggggaagagg agatgtcacg att 173

<210> 54728
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B10

<400> 54728

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atagccatag gttctatgga ccgcaatcta cggatatttg gtctccctgg agatgatcaa 120
atggaggaat caaacacagc ggccgagtga tgggaattca tgggtgcctaa tttgtttctt 180
ctgccatcat cctcattata ctgtggtgat ggatagactg attgcacatg gatacatcac 240
cgtcacaaga gggaaggggtc ctggcgggga ttactggtct gagcttcggc tgggtgtaaaa 300
caagctgtga tattgttgta ctgtaagcct tactaattct tctgatgagg atacaatttg 360
ttttgttgac tacgatgcta aacagctaaa gttctctgcy cagattccag tgattc 416

<210> 54729
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B11

<400> 54729

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ataaatccag tcgcctcagc cgccacagcg ggccgcaagc acgcaaccac acagctcact 120
gctgctcccc tcttcccggtg tctgtctgtg ctcccgtcgc cgggggcgga aggggttcgcg 180
aggccggcgg gcggttaggg atttctccgg agtcccgcga tggcgaagct gtacgtgcag 240
gcgttccccg ccgcggatct gaacaagaac accgagtggg tcatgtatcc gggcgtctgg 300
acgacctaca tctcattgt cttcttctcc tggctcctcg tctctccgt cttcggtcgc 360
acccctggca ccgcgtggac cgtcgtcaac ctcttcact tcgcgatcac ataccacttt 420
ttccattgga agaaa 435

<210> 54730
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-046-Q1-K1-B12
<400> 54730

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gcatttaatt tactgcacag aaaatctaaa gacgccagtt cccaacatta tgcataaggg 120
gaactagtagc tgggaaggc cggagattga tattctggat cagctacttg tcattgctga 180
ccccgcaag aaggggctcc gtcgtcttgt tagcctacca cttgtgcaac ctattctgtg 240
cttctctac ctcttggtc cagtcagttc tcaaggtagc ccacactaga atagccgtct 300
gcatgcaggt ccctccgac atcccagccc aaatgccctt aacaccgagc ttgaagacga 360
acccgagcac ggcgccgagg gggacgccga ctatgtagta gcagccaatg ttcacgtaag 420
ccacgaactg ctgtcacc 439

<210> 54731
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-046-Q1-K1-B3
<400> 54731

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cccaccagc gcaaagccgt cctatcgctc tgctgtgaga agcaatggcg ggccgtggca 120
 aggcgattga cgctgggtgcc gcgaagaagg cgacgtcaag gagctccaag gctgggctgc 180
 agtttcccggt aggcaggatc gctcggttcc tcaaggccgg caagtacgcc gagcgcggtg 240
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 agcttgctgg gaacgcagcg agggattaca agaagaccg catcgtgccg cgtcacatcc 360
 agcttgccga gcgcaacgac gaggagctga ccaagctgct tgggtgggtgcc accatctcga 420
 gcggaggtgt tatgcccccc c 441

<210> 54732
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-046-Q1-K1-A1

 <400> 54732

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 tgaccttgaa cggtttggtc ttcattgtagt gaaggagttt gaacctttga ttcagaagcc 120
 atatacaatt gtatatttcc actccgcagc atcattacaa ccgcaaccag atttaggatt 180
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 tgtactccac ccaacgttgg gtttgagaac agctgttttg gcaatgcaaa tgtttgtaga 300
 tggagaggtc tggaagaaag ttgtatatgt ggataggctt gtgcagctgt tcagatatgt 360
 accacgcgag caacttacaa ttcctgactt tgnnttttcag cacgatctgg angtgaatgg 420
 tgggaggggc cta 433

<210> 54733
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-G2

 <400> 54733

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ctccaccgga gtttttcctt tcctgctgta tcgcattcag tgctgagtgc attattagat 120
 ttggaacccg ttttctgtta tgaattagt ataatggaag tcaggaagtg tcgctgttatg 180
 aattagtgc gggggcaaga aagccagagg attatttccg tattaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaacaaat aaaaaaaatt aacagatttt aaagcataaa gaataaagaa 300
 aaaaaacctt aaagggtgagg ccttttttaa aaattttgaa ttatgaaaga gcaatcgga 360
 cacttcctt gaccgataat ttataaaaaa gggggggccc ttttaaagc 410

<210> 54734
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G3

<400> 54734
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 acatgggtaa gacacgtgt gtgccagtta gctcgctgct ttaagacca cagaggcac 180
 ctaactgggc ctggactaac cctacaagat gagccatgct cggaacaaga tgaatacacc 240
 ttaccctgga tcatgccact ctctggcaat atgtgccaag aagagtggca tgatgagcac 300
 ccaggctgtc tacgatctac tgatcaatgc tca 333

<210> 54735
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G4

<400> 54735
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 ggcaattctt agaccgaact ccagccgaca aaacctttaa aacgtacctc taatagctca 120
 ctctttactc tgaataaac aaaataaact actcacacta tacactatca caaccttcaa 180
 tcctattatc attctacaac taactatcct ttttgtctaa catatataca attcaatcga 240
 cgcttcataa cacaattttg aattaccata acattaatcc ttcccaactt aataatcttt 300

<210> 54736
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-045-Q1-K1-G5

<400> 54736

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ggtcggcttt gcgccactca cctcgctggtg ctgcgagcag taccgtgctc tcaactgtccc 180
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cgagcaaagt atcaatgtcc agaacaagaa ctgcctctac ttcgtggagt ggatccccaa 360
caatgtgaag tccagtgttt gtgatatccc gccacgcggc ctctccatgg cctncacctt 420
cattggca 428

<210> 54737
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G6

<400> 54737

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gaccgatcct cgactcaatc tgtggtggag aagaccgtga aaccgagcct agttgagctc 120
agcgaggacc ctgacgtcaa cgtagggac tactcagacc aggcactgca tgcgtgcgac 180
cagatgatgg tgtcaagcta actatccttt gcgtcaagta ttagagagt tcgatcgatg 240
ctccatagtc caattttgga ttacctgtaa tttggccttt agatttgaag agttgtttgt 300
gtctagcctc ggtaacagat aaaaacggac ggtcctgatc cccttggtcg tttgtgttaa 360
ttaatgt 367

<210> 54738
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-G7

 <400> 54738

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 gggaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aataaaaaaa aaaaataaaa 120
 gcaataacac aatgaattaa gacccaaaaa aaatgcaaaa gggccatgct atttaccat 180
 caacaaaatc 190

<210> 54739
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-H1

 <400> 54739

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 gtatgcngag tgggtgttgc caacagcgag gcgggttctg gcgttgaggt gggttccagc 120
 gtcgaggcgg tccccaatgg tgaggacca cgggatgcg gcggggcggt gctatctgcc 180
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 tgtcatggtg agaggcttca atctagccat cgttcacggc ggcgacaagg tggttcacca 300
 cgaattcgcg ttggtataga ggcattttct taccattctt ncttnccttg gtatctcttc 360
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 atgaatgttc ntttcattt 439

<210> 54740
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-H10

 <400> 54740

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gttcttggtg cttgctactg acgggatttg ggacgtgctg ccgaacatgg aggtggtgaa 120
gtctatgata tcagcgctg acaccttcca aagcggcgag gcagctgac taccgctcgg 180
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ctaccgacag acactatgtc gagcacacct ttcacaatca tcagtttccg tatgactctg 360
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<210> 54741

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H11

<400> 54741

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tgcagctcgc tggccacggc cacctacctg cctcagctct tgggccccga ccacgccgtg 180
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ccggaccacg ggaagaacgt caaggacgcg ccgacatcgc cactggcgct ccctagactc 300
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ttctcgctgt ctgatctaca caatagcagt gctgatggta gagattagcg gccacagatt 420
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<210> 54742

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H12

<400> 54742

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gtctatacct gctcaaagag cgaggaccga tcgccagcac tcgctccoga tgccggacgc 120

ctattctcaa gccccacaa ccgtaaactc gccttttgca taactgctcc aactatagcc 180
cataaagaac tggtagctgt tgccggacct tcgctactcg gtctacttct tg 232

<210> 54743
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H2

<400> 54743

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agctctcagt gctgcgataa cccgccagcc ctgaaccgg cctgcgggaa gggcaaggtc 180
gtcgacagct tcggcgggct caaggcctac gtcgccggcc ccgaggactc caaggccgcc 240
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<210> 54744
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H3

<400> 54744

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gctttttcat gggttgtagc atctgcgtgg cccactttt tacgtgactc ctaagtgttt 120
tcggctttgt ttacacttgt aactaacgaa gaaatcctgg gatgactggg tcgcaacttc 180
tttaaaagat gctattctta ttatggaaat ttaatcgag actgacaatt taaagtcacc 240
tc 242

<210> 54745
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 54745

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atcatcatgt gccaaagctt cgacatgcc cactgcata ttatcgactt ttggctccat 180
ctggtgattc atactatcgg tctgttgaga atctggtgcc tgagcgatat gcagacagaa 240
ccatggctga cttgaccact agagatccaa ttattaggga tcacacagca ctaccagggg 300
aggcacttgc tcgagcagac cgcttgatg atctctaccg ttctgatcgt gtggaggaa 360
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ca 422

<210> 54746
<211> 82
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H7

<400> 54746

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gggttggtaca atatattctaa gc 82

<210> 54747
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H8

<400> 54747

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tcttctgtca tgcggtgcat ccttttgtgt cgtggcattt tacgcattat taacatagtt 180
aacatgaggc ttatgaaaga taagtacca tactacactg actcattttc aacgatgtgt 240
gctttcttca tattctcgct tgtgtacctg taccacaaat aaaagactca caaaaaacgg 300

gcaacctttt taaaggttcc

320

<210> 54748

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E6

<400> 54748

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gggctttata atcctaagcc gtggacacca tgcaccttgc atgaactaac aagctttgaa 120

cactgatacg actattctca tcctctctcg cgctaacaag cacttcactg atcgtaatct 180

aagcatcttc ataggcatac tactactagt acttgctact gctgatttta cac 233

<210> 54749

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E7

<400> 54749

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ggtttctgga cgtgcaaagg acagtaatga tgtaaacaac acacatgaca tctctgataa 120

ttttgatgga atgctgaaca ttgatgtgcc tgaccatcca gatggagggt ctaatgcctt 180

gaatgtcaac agtctaagga taccactcca aagtgttacg catccagaaa ctgttggttg 240

taagcagaac cctagcccaa agtctcatgc taataacccc gcaaggaaac tggcacgtaa 300

aatacttgag gacagcttgg taaagctgga tagcatgcct agcataaatt ctagaattat 360

cagatgggaa cttgggtcct cctggctaca acagttacag aaaaaggatt ctccagcatc 420

tgagaatggt aagcggaatg caac 444

<210> 54750

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E8

<400> 54750

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<210> 54751

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E9

<400> 54751

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cctttctaca aaagaccgtg gcatcctttc gccttctccc cggtacagaa aactatgttc 180
ctccctacaa ggatccttgg agattttggg gaatggagat tcttcttgta gtcacatctt 240
ctatcccttc agatgacttt atagcttcag gtattagacc atatttttca cgtcagatgt 300
ttactgagtg cctgtccttt cagggtgaca gataaaattc agagacccaa attggtatca 360
gtttcaccca tcgtgatcgt tctgattaat aacagtccca gactaaaggt gtgtttgaaa 420
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<210> 54752

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F1

<400> 54752

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aagcccaagg aggagaataa gagcctcaag gagctcaccg gcaagatctt caataccatc 180
gacgatcttg accatgccac ggagatcaag agcaccatcagg aggccgaaaa ataattggca 240
gcaaccaaag atgctcttgg cgatgttc 268

<210> 54753
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F11

<400> 54753

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tgaccgattc ttcggtgttc atgagggaag ctgtgaaatt gatgcatgaa gcaggctacg 120
agctgggcaa ccttgatgct acgctgatct tgcaaaaacc aaaaattagc ccattcaagg 180
agacaatccg atcgaatttg cgcgacctac ttggggcaga tccatctgtg gtcaatctga 240
aggccaagac gcacgagaaa gttgacagtc tacgggagaa catgagcata gctgctgata 300
ctgtagctct actgatgcca aagtgaaga gccacttggt ctggtcattc gatcatgcta 360
ctccgatgac gatggtatct catactgggtg attctttga 399

<210> 54754
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F12

<400> 54754

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tgaacatact gtcaccaata tgaactgtta catgcatgca gatgaagctt acatatgac 180
catgtacggt catactaatt gaaaggctga ctttattcaa gtccctccctc agatctaact 240
actgacatac ggactactaa ttctactgac tgccattgaa caatcagtat ctcaagacac 300
tga 303

<210> 54755
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F2

<400> 54755

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 ctcttctgct actgttgctg ctacctttgc tgggtgttatt gctaggggtcg aataacttaag 180
 ttaactatgc gctgacagtc tggactagca gtgttatgtg cgctgctgga ccttgcgcg 240
 aatgctgtgg ccgatttggt cgtaaatgtc aagaattgtg ttacagtgcg tgtaaaaaaa 300
 aaatactatc aaaaaaaaaa aggtaggata g 331

<210> 54756
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-F3
 <400> 54756

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 cgaacagtat tgcctcaatc tttgcgtgga caagaggact tgcacacagg gcaaagcttg 180
 atgacaatgc tagactactt gacttcaccc agaagcttga ggctgcctgc gttggagccg 240
 tcgagtctgg gaagatgacc aaggaccttg cccttctcgt tcacggatct tcaaatatca 300
 cgaggagcca ttacctgaac acggagcgag ttcattgacg ctgatgctga cgagc 355

<210> 54757
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-F4
 <400> 54757

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 aatttggttc tctgaatttc agtgagaagg gaaatgaaga taccttcgtg tcaaaccaag 120
 ggtagaata tcctatggaa cactcagcag gagccagtag aaagaaatca ggaaacagtg 180
 agagattctc tagcagtcgt ttagatggaa atactaaact ggtagccat gaagtttgta 240

ctaaaacact gtactatctt agtcggtttg accggatgaa agacgcttgg gacaaagatg 300
 caaatagcct accaaggagg gctgttggtg cgatggaaat gataggaaaa gcatctgcaa 360
 ttcgacatgc cgaaattgct gagttggaca aanagattaa tactctgaag gaagagattc 420
 tggcgctaga ggcagcttga gaaagggaaa tctcctgagt gaa 463

<210> 54758

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F6

<400> 54758

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 gcattgctgc aactgtaaag accactgctg ccgtcacttc ccgttcatgg gagacatggc 180
 cagcaaggac gggagataga actgctacca cattggccgt cgcttgcaga ctagtggcgt 240
 gtactatctc tctctatcta tc 262

<210> 54759

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-045-Q1-K1-F7

<400> 54759

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 gaaaggatgg tgtctacatg tactttgaag acaatgctgg agtgattgtg aacccaaagg 120
 gagagatgaa aggttctgcc atcactgggc ccacggaaa ggagtgcgct gatctctggc 180
 ccaggattgc tagcgcgga aatgcgatcg tctaaaggaa gcagtttgtc gaagtttcat 240
 ttaaaatggg gactttagaa gggagttctt agttagacga gcttttgatt gccctgaata 300
 tgtttccccc gctaatgctt gtgctgctgg accgtttcct gatagctttg ctttgatgac 360
 atcctncccc ttatcgataa agttgcgtag cctgac 396

<210> 54760
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-F8

 <400> 54760

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 catctcctat cgaacactca tccggatcct gtcaacaaac atcagtctac attgatatct 180
 tctctagcag tctgttacct ggaaattcta aactgcttag ccataaaccc tgtactaaaa 240
 cactgtacta tcttattcgg ttgacccga ttttaagacgc ttgggacaaa gatgcatata 300
 ccctac 306

<210> 54761
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-F9

 <400> 54761

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 atcccagcaa aacctagcgc gttactggaa ggccttgtca ggtacattcc catggcatct 180
 gaagtttttg gatgcgttgt cggtctgctg gcctattctg agatgttgag tggttatcct 240
 gtgggtattac taagatgctg gacaattttc gtagtgctgg tggtatcagc tagagaagag 300
 ggatggctgg cacaatgtgg ctactatggc caactgcttt tgtatgtgta actgtcgatg 360
 tagattgact atggtctaaa catcagttta gttgatattt cgttctctaa attcctcgat 420
 aactgctttt tac 433

<210> 54762
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-G10

<400> 54762

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ggcacaggac actcctgagc tgacagctat ggttcctgca tcaactcgtg tcaagagaga 120
atctgctctc cccaagccaa aaccaatggt gcagcagcag ccacaactat caacagtatc 180
catttcaaag ccctcgggtga ccctcataag aagcgacgct gggactcctt caacggcacc 240
caagccgaca agcatcaacg actcttacat ggcgtccttg gaagatatga cggagctaag 300
tgcacttgat gggtaactca cgtcgagcac atgcctgact gcacttaaca gctgaattca 360
tggaacacctg cgcattggaac ctttaa 386

<210> 54763

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E5

<400> 54763

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tcacctacac cgagcacgct cgccgcaaga ccgtcaccgc catggatggt gcgtacgcc 180
tcaagcgcca gggccgcaact ctgtacgggt tcggtggttg agcgcattctc ttcctcgtc 240
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agttatcaga ttaaaatata tctgatgtgc ttctgtattg ggtggaatca tgtgtcccag 360
cagtgtctggg aaatcgagat caagatgtat ctttctttgc agtaatgaaa tgttaaaatc 420
gagatcaaga tgt 433

<210> 54764

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G11

<400> 54764

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actggcgccg caggacaaat tggatatgcc ctggttccca tgattgctag ggggtgttatg 120
 cttggtgcag accagcctgt tattctgcac atgcttgaca ttccgccagc agctgaagcc 180
 cttaatgggtg ttaagatgga gttggttgat gctgcgtttc ctcttctgaa gggagtgtgtt 240
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 ttccccagga aggaggaat ggaaaggaaa gatgttatgt cgaaaaatgt ttcaatctac 360
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<210> 54765
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-D10
 <400> 54765

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 caatccggag gctggcgagg aggggcggcg tgaagcgtat ctccgggctt atctacgagg 180
 aaaccgcggc cgtgctcaag atcttctcgc agaatgtcat ccgcgacgcg gtcacctaca 240
 ccgagcacgc tcgccgcaag accgtcaccg ccatggatgt tgtgtacgcc ctcaagcgcc 300
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<210> 54766
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-D2
 <400> 54766

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agaccttctt caagcccag gccgcggcgc tcccggaggc cctggacgcg tcctccatgc 300
 ccgccgncac catggccgcg aagccggagg ccacgtcgat cccgaccacc accaccggca 360
 ccacggcggc ggcggcgggc acctacgccg cggcaggcac tactgctgcg tc 412

<210> 54767
 <211> 214
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-D3
 <400> 54767

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 atcgctacc atcagcacct ggatactatg gactacctta tacacttctt aactatgatc 180
 gggtagctac atctatgcat cctagggggc acaa 214

<210> 54768
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-D4
 <400> 54768

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 caaattgatt atgc 374

<210> 54769
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 54769

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tacgagtgtg gtgagactgg ccactttgct cgtgagtgcc gtttgaggat tggttctgga 180
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cgccggagtc caagttacgg tagaaggagt tacagtcctg cagcacgctc tccaaggcgt 300
cgtagcgtct caccagctcg tggacgcagc tatagcaggt caccacagca caagggtgca 360
cgtgaagaat ctccctatga taatggatac cgncgcagca ggagctagag ccagatcggt 420
gtatccgacg acgagcggtta tgtgaca 447

<210> 54770
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-D6

<400> 54770

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aatgtggatt atgcttgac cccagaagaa gtgcaacagc atttccaagc ttgtggaact 360
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<210> 54771
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-D7

<400> 54771

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tattcgaatt cgtgtctgga agatgaaagc ctgtgaatac acctttatag agccgtgtca 300
tcgatgctaa cattttttga agcagagttt tgaagtgaat gtgaagcgct gtgctgccct 360
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<210> 54772

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-D8

<400> 54772

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cgtgccggtg cgcgcagtcc cgcgctgctg tgcgctgcta ccggctcagc agcgtagatg 300
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<210> 54773

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-045-Q1-K1-D9

<400> 54773

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ataaaagatg ggtctgtaaa actgggtagc gagtgagggt gtagcttgct gccgatgctc 180
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 tgtaattagt atcccttttc agtatcgctg aggagcatct gctgtaggat gcacgcctgc 360
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<210> 54774

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E1

<400> 54774

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 gtaaagaatt ttagatccca acgacctggg atgggccaaa cagaggaaca ataccagttc 360
 ttgtacaagg caattgctga cgagcttgaa gacctgctaa attcagatca ttgaggtggg 420
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<210> 54775

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E11

<400> 54775

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 atctctggcc ctgtggtggc catggtctgg gagggcaaga gcgtcgtcac aactggccgc 180

aagatcattg gcgccaccaa cccctgggt tctgagcccg gcaccatccg tggcgacttt 240
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gagattgccc tgtgggtccc cgagggccct gctgattggc agagcagcca gcacccctgg 360
atctacgaga aagtaacatg gaaagtttca catcaaacct tgagagccag aggaagcatg 420
tcaccatttg tgcttt 436

<210> 54776

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E12

<400> 54776

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tcagtcaaaa taaaaaattt aacttagaac aactctagaa atggatttgt tcaagcagga 180
gccaggaggg aaatgatcta acttgataga tgaaaggctt gctcttttag atattttgct 240
tcaagatttt actaaaggta cttccaaatt tgtcacaggt tgagattgtg atgagtctcg 300
aggagcactt cgatattagc gttgaggagt ccagcgcaca aacaatcgcc acagttgaag 360
acgccgcgga cctcatcgac aagcttggtg ctggcaaagc gtagttctgt accttctcta 420

<210> 54777

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E3

<400> 54777

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caacagaccg tgctctacat gggtagcgtt aggtttaaga gtgttataca gatggatgtt 180
gcgtacgctc taaagcgcca ctgccagtac tctgtacggc ttgcctgggt gatcgcatgt 240
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ttgatgtaga gagttatcag attccaatat ctgtgacgtg cttegatatt gactggaatc 360
atgtgtgccca tcagagctgg gaaatcgtga tccagatgtc accatgttca gaaacatgag 420
atgttaaaat ctaaa 435

<210> 54778
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-045-Q1-K1-E4
<400> 54778

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aagctttgtg caccacaaga ctctgagat catgcctgca gttaacaagt tcttcactga 180
ccctaagtga agcatgttga ttggcatact actactacta cttgctactg gggattttac 240
actttgctgg caactcaata tggtggggac atccatgacc tctaaaagta ctttgagcgc 300
ttggtgatga cttggtatat gtatgatggt ggatgagttt gatcgtccat gcttgatgtt 360
catattcatc tgatcatctgg atttgccgca 390

<210> 54779
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-045-Q1-K1-D1
<400> 54779

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taccaccca tcgaaactat aggacttcat acgaccgcct ctttgaacag gtacgtagac 180
tggaaccga aagcgatagc ctaaagaaag atgccgccat ctacaacttt gtgcaagagc 240
gtcttcagaa gtcagcgcca tacaaaatga tcatggagct gaggcaatg gagctggagg 300
ctcaagaaat atcgttcgag gagcttctgg ctctgagaa ggaggacacc gactattggc 360
agcgcaacgg gaaggatgag aacagtctcg tgcaagtagg acacaatgcc cctgctactt 420

gggctcactg acgataggag acctaacatc

450

<210> 54780

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-B4

<400> 54780

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caaggctggc ggccccagga agaagtcggt gtcgcggtcc gtcaaggccg ggctgcagat 180
ccccgtcggc cggatcgggc gctacctcaa gaagggggcg tacgcgcaga gcgtgggcac 240
cggcgcccc gactatctag ccgccgtgct tgagtacctc gacgacgacg tgctggagct 300
ggcgggaac gcgtcgaagg acaacaagaa gacgcgcacg gtgccgcgac acttgctcct 360
ggcgattcgt aacgacgttg agctcggcaa gctgctgtct ggcgtcacca 410

<210> 54781

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-B5

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gtacttggtg aaatcttaca ccacctgta aataactggg ttgttgtaat aatatatgct 120
tttgctacgc 130

<210> 54782

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-B6

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cataaaaaatg ggtagaccag aattggcccc gagggccatt actgtggccg aggagagact 120
gtcagatgac aagtggccgg aatactacga cactcgatct gggagggttca ttgggaagca 180
atccccgatct tatcagacat ggactattgc tggttttctg acctcaaaaa tgttgctgga 240
gaaccagag ctggcttcta ttctgacctg tgatgaggac cttgagctgc tcgaaggctg 300
tgcttgctgc ctgtccaaga agaggacaag gtgctcacgg cgagcggcca agtcacatgc 360
tgcgatgaaac tgtgaagctt attgtgttct tatactggtg atgcacaatg tgtactacca 420
acgg 424

<210> 54783
<211> 412
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-045-Q1-K1-B7
<400> 54783

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gaagccagag taccaggaat ctgaagagca gtacagaggg aaaattgttg gtgtcgactt 180
caaggacact ggagaatcct cagggagcgt tgacgtcacc tttgacttct ttgtacccaa 240
tgagaactaa ttccctggac ttctatcaga gtgtggtctg caatgtttca tctgttcgtt 300
gaatttgtga gccctctggg tagaaagtta gaatgctttg ttctctacag tgatgtaaatt 360
atctanggtc cctgtttgct ccatgtttnc tgtaaattgg gtctggaatt tg 412

<210> 54784
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-045-Q1-K1-B9
<400> 54784

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gaacatcgac acttcaagac tcaactgcact ggaagaaata cacaagaggt tgggtgtctct 120

tggcttacag atggctatag ccagtcggg atggaaggca gttcagaaga tgaaagtgtc 180
 acagggtggtg gacagggtag gacaggactg gatcttcatg acagtaggtg aagcgggtgga 240
 tgcctgtcta gctgctcata agggcacagc tctcgcatgt tgagtatgcg ttaattacta 300
 ctattagtagt tcctaaagat aatcccataa gcgatgcggg tatttgcatc ctatgaaagt 360
 gttactggaa atgcttacga aacagaaatg catggtatga cttgactgga gtggctcgtgg 420
 cgagtaat 428

<210> 54785

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C1

<400> 54785

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 cccggggccc tgagcccgcc gtccggcgcc acgggcgcct acggaccggc aggagcaggc 180
 agcaccgact acagcgacgc tgcggcgccg cgcgtgtgca ggctgcacgt ggtggctcgtc 240
 ctccggcctcg gactagtcgt cgcggcgcca cctatcctac ggtaggaggt gtaagtggga 300
 cggaaggg 308

<210> 54786

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C10

<400> 54786

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 gctgggcaag ggcggcgcca agcgccaccg caaggtgctg cgtgacaaca tccagggcat 120
 caccaagccg gcgatccgca ggttggccag gaagggcggc gtcaagcgca tctccgggct 180
 catctacgag gagaccgcg gcgtgctcaa gatcttcctc gagaacgtta tccgagacgc 240
 cgtcacctac accgagcacg cccgccgcaa gactgtgacc gccatggacg ttgtctacgc 300

tctcaagcgc caggggcgca ccctatacag cttaggcgga taggtcgacc atctaccggt 360
ggcgaatta 369

<210> 54787
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C11

<400> 54787

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atctaggaaa tgggcaccac gcttcgatta catcttgacc caacaggcgt ttgtgactgt 180
tgacaagaaa gcaccgatca accaagacct catcagcaac ttcattgtctg accctgtgca 240
cgggtgccatc gaagtctgtg ctacagctgag gccacccgtt gacatctcag tgaccgctga 300
tgcagatttc gtgcgcccag agcttcgaca gtcttcataa gcttgtatgg atccgcagtg 360
tgactgcaat ggctagtttg taagaactta atatgcctgg gcttttgaac tcttagattg 420
tgcttgtatt gctcgtgctt ga 442

<210> 54788
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-045-Q1-K1-C12

<400> 54788

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gtctggatca gaacctggaa acctacaaag gtaaggaaact acttggtggt aacgctgcct 180
acaaatgagg gttcactgat accaattaca cgcaagtgcg ggagctctat cagaagttca 240
tgaccttaca ctctgatata ttgacattcc cttgctatta gtacttgcca ccggatccag 300
gttctgatca ccagatacat gactcagcta gcaccagatt taaagctgaa taccagttt 360
ttcagaaggt gcgcgtaaac gggccatatg cggcgccngt ttacaagttt c 411

<210> 54789
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-C3

 <400> 54789

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 gctacatctg ggaggccacg accaagagca gcggcaccca ctaccgctgc atctggggca 120
 aggtcgcccg cccgcatggc aactacggcg tcgtgcgcgc caagatcaag tccaacctgt 180
 cgccggaatc catgggcccgc aacgtcaagg cgttcatgta cccagcagc atctaataatgat 240
 aatctgaatg cgtggaggac acctactc 268

<210> 54790
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-C5

 <400> 54790

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 atcgccctgc ccgagcccga cctggaagtg ggcagcttga gcaaccaggc ggtagctaga 180
 ggagccacaa ctccgaatct ctgcacatgc gagatctcgt tcctgctgag gcttattcct 240
 gagcttgtcc aataatgcct agacttcctg gtgtctgtct gtctgtctat catggatgaa 300
 ttgactaatg tgctactgat gtactgatcc gcatacaaca aaagaagccc ttgtgc 356

<210> 54791
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-C6

 <400> 54791

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cgactgatct tagcctgggg ccaaagcttt tccacctaca gatcgactg gagcatttca 120
aaggctggaa gatcccagaa aacctaacca atgtccatgc ctacaccaag gctcttttca 180
gccgtgaatc ttttgtcaag actaagccat ccgaggagca cgtgattgcg ggatgggagc 240
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tcttatcagt ctttgtcagt ggtgtggata ggtgtcaagt ctgtagccta gatgcatgat 360
tcagttggaa ttatgcagtg ccgtgtctcg agtactcagt tctggctgtt gcggttgtgc 420
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<210> 54792

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C7

<400> 54792

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tagacgacag caacatcttc gagtggcagg tcaccatcat cggaccgcct gacaccctat 180
atgatggagg ctacttcaat gcaataatga ccttccccca gaactatccc aacagcccgc 240
catcagtaag atttacttct gagatgtggc atccgaatgt ttatcctgat ggacgtgttt 300
gcatttctat tcttcatcca cctgggtgaag atcccaatgg ttatgagctt gcaagcgaac 360
gatggacacc agtgcacacg gttgaaagta tagttctgag catcatttctg atgctctcta 420
gtccaaatga cgagtc 436

<210> 54793

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C8

<400> 54793

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ggaaaaaaaa ctaaaaaaaaa aaataaaaat aaaaaaaaaa aataaaaaaa aaaaaaaaaa 120

aaaaaagata ataataaaaa aaactaaaca taaaaaaaaa aaaaaataat gggcgtgctt 180
 tttagaggcc caaggtttgg aagacttttt atagcaacga aacgacttct tatatgcaca 240
 ccttattcaa gcccgaggcc gcggttttaa aagaggccct ggacgaaaac tccatgcttg 300
 ccgacactat agccgctaag ccaaaagcca cttttatc 338

<210> 54794

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C9

<400> 54794

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 attcatattc taacctcgca tacccttcat gcggtgctgg ttgccattgg aggccctggg 180
 cttgacaggg cagtgaaatt ccagaacgac attcaaattc ctgggctcgc caatgtatcc 240
 gcaactgcca tgaacctcca tggatttaac agccccgctg actactagca aactcctaac 300
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<210> 54795

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-B3

<400> 54795

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 ccacagatcc aggaatctga ccagccgtac atatggaaca ttgcaggtga ccacttcaag 180
 gacactgtat aaacctcatg gagcgggtgac gtcacctttg acttctttgt acccaatgag 240
 aactaattgc ctgtacttct atcacactgt ggtctgcagt gtttcatctg ctgctgaat 300
 tcatgagccc tctggctaga aagttataat gctctgtact ctacaccgat gtaaataatct 360
 aaggtccttg tttgct 376

<210> 54796
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-H9

 <400> 54796

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 aaaacaaaaa ataaaaataa agaaaacaag aaaaaaaaact tatgaaggaa cgaaataaaa 180
 ataatagcaa ctataacttc acattgccga ctatttcaaa ccagaaaatt ttagccggaa 240
 acaggttacc acctgagtat tagaaccttc ctcgaaaagc ctacaaacgc aatgccttgt 300
 accaacagct gaagaaaaaa cggatttcgg acaccaatt atatataccc gattctttta 360
 gaagcatacc cc 372

<210> 54797
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-A1

 <400> 54797

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<210> 54798
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-A10

 <400> 54798

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gctgctggcg gcgctgtgca tgggtggcggc ggcgctgctc gccgtgcggt cggaggccca 180
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 cgaggccgct gcgctcccg aggccctgga cgcgttctcc atgcccgcgc ccaccatggc 300
 cgcaagccg gatgccacgt cgatcccgac caccaccacc ggcaccacag cggcagctgc 360
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<210> 54799

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-A11

<400> 54799

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 ggtcagagtg ttcatgtacc cgagcagcat ctaaggtttt gttggagtaa agatggacta 240
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 cttagattgt tcaagtgtcg aacctgtgga agtctgtcca aaatttggtg tcgaacggat 360
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<210> 54800

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-A2

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 gtcaagcgca tttctgggct catctacgat gagaccgcc gcgtgctcaa gatcttactg 240
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323

<210> 54801

<211> 178

<212> DNA

<213> Zea mays

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<400> 54801

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cctaacttct ctatgacaac atatatgaca ctttgtacac catgctaata tcttttatct 120

tgattatctc caaccacaca atatataatt aaaatactac tattacatta tttaatac 178

<210> 54802

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-A5

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gggaacttgc ggcgaaaatc taggccagag ccaaggccgc aaagggcttc ggaaagggcg 120

gcccgaagct tctccgcaag gtctgcacg acaccatgca ggcgatcacg aagccgctga 180

tccggagget ggccatgagg ggcgtcttca agctcatcta cgggctgacc tacgaggaga 240

cccgcagcgt gctcaagatc tttctccaga atgttatgcg cgacgctgag acctacacgg 300

agcacaccog tcgcaatacc gacaccgcta tcgacgtcgt gtacgcctc aaacgccact 360

gtcgcaactct ctattgcttc agctgctagg ttaggcgtgg gtaattgcct gtccaggtgt 420

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<212> DNA

<213> Zea mays

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<400> 54803

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 ccgccaagct cgcgcggtac aacaagaagc ccaccatcac ctcccgtgag atccagacct 180
 ccgtgcgcct cgtcctcccc ggggagctcg ccaagcacgc cgtctccgag ggcaccaagg 240
 ccgtcaccaa gttcacctcg tactaggctg cgtggcctcc gcttgcaggc ttcctctgta 300
 tgttcgcgtg tcttgctgta gttagggtgt gctgtgtctg gtctcctccg gtagcaactg 360
 ttatctgatg gaacagtaac aatgcttatt gaatccagct agttgcttat ttgtggatcc 420
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<210> 54804
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-A7

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 gaccgaagtt gtagatgaca acatatctgt tcctttggcc accatgctgg tagcttttct 180
 cttgttttagc tccaaccgca caatagttaa ttaaaatact actagtgcac tatttaagac 240
 atgtgatgag ttcttcagtg atgagttgtg cttgcttttg cttcctatgt gaatgtgatc 300
 tctagtactt gatggcgaca gcctaaaaaa aaagantaat ggaaattttg acattcttat 360
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 <212> DNA
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<223> Clone ID: LIB3088-045-Q1-K1-A8

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 ggtgagatca aacgcctgaa cagcccgaag atcaccagct cagggtggcac gcctgtggca 120

gaactgaaag gcatccgcag cccatccatt tctgaaaaag catcacagccc tegtctcact 180
gagctccagc atgagcgcaa cctcttgga gggagaagca ggctaggac gccatccaag 240
ttgggtgaag gctcggcacc aaagtgaata aagcaatgat gcattgctta agctatgcaa 300
ctactgggtt actggccatc aattatataa gtgattataa agtgggttca gtgttagtat 360
ccaagatgtc ctctgatgag attactacta ttcattgtga tctctagcct ctttgtcttt 420
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<210> 54806

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-A9

<400> 54806

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tgaataattc gataaaacta atcaaaaata taatataacc gcatcaaacc aattcatgct 120
taaaatccca ttgcatcttg ctttaagggtg tctctctgtc tatcaccctc tatctttttc 180
tagtcctttt cttcatttcc aactctgtat cttcctccat aatccttctt gttgctcatc 240
ctttttaatc ctttctgtc tttctctctc catctcctcc tctactgtga tgcatttagc 300
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<210> 54807

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-B1

<400> 54807

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gttgcaactg atcttacatg taggcctagt ttgggtactc ttggattgaa gtgggttggga 180
gggattgaag agtgttttaa tcccgataga tcaaaaactc cccaataca tctcaatcca 240

ctccaatccg tctcattcct agagtaccca aaccaagccg taggggggag agtttcccag 300
ctgatgacgc gtatggaagt aagagatcat gtagaggggc attgttttat ggaaattttg 360
acattctttt gcaagtttc 379

<210> 54808
<211> 361
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-045-Q1-K1-B10
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ggccccaata atggatacct agcaccgcaa gtgctaaccg ggagctactc atgaatgtag 120
ctatcactaa atactgacac tgcactgtat ccaggctcag atctaaacga cagatactac 180
atcaaaacag cttgcataga gctactactg tgataaaaca ccgaacaccg gataaatcct 240
gcacttataa gtcttgact tgctggacca tggcagatta ctcatctggg acagcattat 300
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<210> 54809
<211> 351
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-045-Q1-K1-B11
<400> 54809

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tctccttcgt aagtggaaat taacttagaa accggtttaa gctaatagcc ttctgttctg 120
ttttcccttc agtgctgtca ggggattgtg gtgtggaagg agttgcttgt tcgttctggg 180
ccaagtttca gctttagag aagaaggcag acttctttgt taatattatt tttagcctaa 240
ataaaccagc acaatgtag acggtgatgt ttctcatttg gcatatttgc atgcatgctc 300
tgtaattttt ttctgcgagc tatgtgatgg aaatatatgc atcatcttta t 351

<210> 54810
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-B2

<400> 54810

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 ggtgccgccg agggcgaggg cgcggtggac tccaaggacc ttcagcagca gagcaaggcg 180
 ctcgacaagc tactgatca tgctgaggac cggcagctcg attcatcccg tgtccaatcc 240
 gccatggcag cacttgcttc atccaaggag gctgactgga acgcgatgag gctganggag 300
 aaagaattgg ctgctgtgaa gatcaaccct gccgatgtcg aaattatcgc tactgagctt 360
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<210> 54811
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-G11

<400> 54811

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 cccccctca attccgccta tagattcccc tctttcatgg attttgatcc aatcgtaata 180
 ttgtcagtag ctctagattc gtcggtagct ccagcatgag tgctcgggtgt agttctgtgc 240
 ctgtaaaaac ttgggatagt tgatcgcgtg tgatcagccg tcatgctcct gcagtctcta 300
 tgaacaagct aagctataat agtatTTTTgc taaaaaaaaa actacctgaa aaaagtcaaa 360
 attggctctc ttttattttg tatctactac tactactcat ttgcgagtga gagatggtct 420
 gggcacacca ttcaatt 437

<210> 54812
 <211> 426
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G12

<400> 54812

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ggagacgggg cgggcgcgacg gcacgggtgtc gctggcgctcc aacacggggg cgctgccgtc 120

gcccttcgcg ggcttcgchg gcctgtgtgca gagcttctcg gaccgggggc tgaacctgac 180

ggacctcgtg gcgctgtchg gggcgcacac catcggcggtg gcaagctgct ccagcgtcac 240

cccgcgcctg taccagggga acgccagcag cgtggacccg ctgctggact cggcctacgc 300

gcggacgctc atgtcgtcgt gcccgaaccc gtcgccggcg tcggccaccg tggcgctgga 360

cggaggcacg ccgttcgggt tcgacagcag ttactactcc aggggtgcagc agaagcaggg 420

cacgct 426

<210> 54813

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-044-Q1-K1-G2

<400> 54813

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atcctgaggg gtgagctcac cgccttgaag agcgcggcga gggcagcagg ggagaggatg 180

caagtcatgg tttgcgttg aacaggccac cacaccaagg gctctcgac tgcgaggttg 240

cccatagctg tggagcagtt cctgctggat gaaggcctnc agtacacgca gcctcaggcg 300

ggtctgctcc gagtgatggt gtactaacat ctcttangtg agaaaaaaaa accttcaaaa 360

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<211> 425

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3088-044-Q1-K1-G4

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gttcacgttg tgcttgagct tcagcatcgg tgtggcttgt gctaacaccc aagggaataat 120
cgttctggag gcttttagtg tgacggctgg cgtgggtggt tctctgactg cgtatgcttt 180
ctgggcgtca aagaaggga aggaattcgg gtacctgggg cctatcctgt cttccgcgct 240
tactatcctc gtccctaacta gctttcttca gggtttcttc cactgggac ccgtgtcggg 300
gggcttggtc ggtgggctag gggctctggt cttctcaggc tttatcctgt acgacaccga 360
aaacctgatt aggcgccaca cctacgacga gtacatctgg gcgtcggntg ggctggacct 420
cgaca 425

<210> 54815

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-044-Q1-K1-G8

<400> 54815

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gtatgaaccg atggccttgg tgacaatctc tccccctttt atatgttcag atggttngct 180
tttggcaccg gaaattaatt ctaggccagg aaaattttca aattgtgaac catagatggg 240
cacatgctca aacaatTTTT ttggtaatgc cgagcaatct gctaaacttg ccagcagtga 300
tgacaggcca taggctttca caatgactga gagcactaca aactgtgggg atgaacaatt 360
gacagatgtc aaagaacctg tggccagtac agcaaaagaa cagttatcga aagacatcga 420

<210> 54816

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G9

<400> 54816

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acagcgaggg ccaggatcat caatgctggc ggagagtgcc tcaccttcga ccagctcgcg 120
ctccgtgccc cacttgggca aaacacggtt ctgctgaggg gtcctaagaa cgctagggaa 180
gctgtcaggg acttcggggc tgcaccagga gtgcctcaca gccacaccaa gccttatgtt 240
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gtctaagtgg cactgcctt gccaatctag tgccgttttg ctcgtgtcag ctcaatatta 360
ccgttttggt gtcatagttg taatgtttta gttgtcggaa tctcgtgtca ttatcggata 420
tcgaaccaat caaatt 436

<210> 54817
<211> 274
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-044-Q1-K1-H1
<400> 54817

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tgcccatcgc gctggaggtg ctcgtcaact gcggctgcga ggtcccgcca ggctacaaat 120
gcacttaaac gactccattc catttcatcc catctcacca tgcgtgcaca gcgaggtctc 180
cttttgccct cccgaatgca aagtttgaaa ggctcgtcga cggatttggg tctccttttg 240
cccacccgaa tgcaaagttt cgaaaggctc gtcg 274

<210> 54818
<211> 412
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-044-Q1-K1-H10
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ggttgggatt tggggatgca aggactgtgg gaagggtcaag gccgggtggg cttacaccat 120
gaacactgct agtgccgtca ctgtcaggag cacgatccgt cgcttgaggg agcagactga 180

agcatgatcg gtcgcttgtc aggcatactg ggggtccacta tattggctgt gtagccgaga 240
cagtactcca gcatttttgg gttatgctct aggatctcta aagggtgggt gctaagattt 300
ctacttgttt accgttgtga atttcacaag tgatatctga tcctattact atcatgatga 360
cgtcaaattt gcttctaaaa aaaaaaant tttaaaaaat aacattttan ac 412

<210> 54819

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-H11

<400> 54819

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ccaaggagaa gcttgttgac accaacggcg caggatgatgc ttctgttgga ggcttcctct 180
cacagttggt tctaggcaag ggcattgaag actgcgtgag ggcagggtgc tatgccgcaa 240
acgttatcat ccagcgcccc ggctgtactt acccgagaaa gctgacttc aactagtgc 300
aaactgaggc acgtcatgag agggactgtt ataggcacac ttaattgtta accagtgcgt 360
ggttcggtgt ctacacaccc tgtattcttc cgaggcttct cttctgatcc ggccaatatt 420
tttgccgtga aatttg 436

<210> 54820

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-H12

<400> 54820

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cttcacgac gactgcacca agccagtga ggacaagatc atggagggtcg cctcgctcga 180
gaagttcctg caggagcgca tcaaggctgc cggcggcaag gctggcaacc tcggcgactc 240
cgtcaccatc tctcgcgaga agaccaagg caccgtcacc tctgacggac cttctccaa 300

gaggtacctg aagtacttga ccaagaagta cttgaagaag cacaacgtgc gggattggct 360
acgcgtgggtt gctgccaaca aggaccgaaa cgtctatgag ctccgctact tcaacattgc 420
tgagaacgag ggcgaggaag aa 442

<210> 54821
<211> 332
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-044-Q1-K1-H2

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ccacgacttc atcgtcaagg atgcgagcgg caaagacgtt gacctcagcg cctacaaggg 180
gaaggttctt ctcatgttta acgtcgcatc ccagtgtggc ttaactaact ccaactacac 240
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atgcaaccag tttggtgggc aggagcctgg ta 332

<210> 54822
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-044-Q1-K1-H3

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gtgttaacaa aaatagatgc ccctcacatt tccttttttg tccccccaca acaacaccat 120
gcatgattac ttctcctgaa caatgcatgc acacctaggg taaaataaaa tactctcaca 180
tccaccaccc ttaggctatg gagtgtgttg attacattac aggcatgcca gcatccgtgt 240
ttgcttgtgt gtgcagataa caggcgagac ggttggggag gtgaaggccg tggcaggtat 300
gcatcagagg aaagctgaca tggccagtca atctgacgcc ttcatagcac ttcctggagg 360
gatatggaacc cttgaggagc tgctggaagt gatcacctgn gcgcagcttg gcattcacia 420

caagccggtt ggcttgctaa acgtg

445

<210> 54823

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-H5

<400> 54823

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caggtattct tttgcccttc cgaatgcaaa gtttgaaaag ctcgctccacg gatttgggtc 120

ttcttttggc caccgaatg ccaagtttcg aaaggctcgg ct 162

<210> 54824

<211> 436

<212> DNA

<213> Zea mays

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<400> 54824

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gctaaaactt atcgagtaaa tgaaacttat taaggatcac ttgctagtat gcctactcga 180

tcatactcat acacctgcta cagctagtaa gaatacttct atgatacagg aaatggatgc 240

cacactatga tgatagggtta ctggatagca actgcactta ctaagaccaa actgactagc 300

tcgataatta tgggtgctgac atcagagata cagtatcaag gctgctctgg tcctttttcc 360

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ttatcagtaa tgaacg 436

<210> 54825

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E9

<400> 54825

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 gcagtctgga aatattgaca caggaaacta ttttaacagt caaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaattta aaaaatccaa aaataaaaaa 300
 aaaagggggg gcccttttta aaggtccaat tttttcacc cgtttctata aacttataac 360
 ttttttttaa gggccc 376

<210> 54826
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-F10

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 atgactgccg atacgcgctg tatgatactg attgcgatac tggggagaat gtgcagaaaa 300
 gcaagattgt catcattgcc tgggtgcccat cgacatcccg catacgtgct aagatgctgt 360
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<210> 54827
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-F11

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<210> 54828

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F12

<400> 54828

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 tgggtatacgt gaccagctat ttaagttcct aggtttgtaa catgtatgtc cgctgcagt 180
 tcagttgaga tgcttcaagg ctaaggttct gttgtgtgac ctgtagacac gaggtgtca 240
 gcttgatttc tcttggtaat gtgtgtcagc agagcgttag cattaagtct aattgaacag 300
 tgctgttatc tgtaacgtct gagtttgatc agaaactgaa gttaattgag gaagac 356

<210> 54829

<211> 368

<212> DNA

<213> Zea mays

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<400> 54829

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 aggttctagg tttcttctat tgaagaagct gagaatcttt ggtatggcct gcctgcctgt 180
 cttactctct cagactagag tacctgttat tttactttaa tatgtctctc tcagactaga 240
 gagccttctt ttacttgaat attggttact gcattggtct ttcactttaa aatcggtgac 300
 tgcattgatc gaattatctg agccggttct tcagatacaa aaaaaaagct gacatggacc 360

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368

<210> 54830
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F3

<400> 54830

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ggatggtgaa gtctcctgga ggaccatcag taaaatttct agttaatgct gttcacacca 180
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ctacaaatth tgatgagcaa cctcattgga agcttggtgaa ggaaatgata actcagatat 300
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ttgataaaagt tgat 434

<210> 54831
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F4

<400> 54831

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tgcatatgac tttggacaca cttgaaaaac gcttgatctg gcttacaatg aaacatgata 180
gggtcactgg gatgattcac taagatctat aattggttgg agcactatgt accattttca 240
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<210> 54832
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F6

<400> 54832

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tttggacaca ctggaagaac gtttcaactg gtttacaatg aaacatgatt gggtcactag 180
gatgattcac taggatctat aattttttgt agcactatgt cccattttca gtgctattat 240
gtatctgttt aatccttttt actgcggttt gaacttgatg tgacattatt gtggatggat 300
tgtacctcca tctattattg caacatgttt ggaacttggt atgagaatta tgttttagcta 360
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<210> 54833

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F7

<400> 54833

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agtaccagct tgatttgctg agcttgaca ctacagacgg atctttacct ttggataatg 120
aaatcttctg ggggaccata aatataatat atagatattg atgggtgacac cctggatgag 180
ttgatgcttt cctgttacgc atatgaaagg gttacgcca cttcttacat tttctacaaa 240
ttttgatgag caagctcatt ggaagcttgt taaagagatg ataactcaga tatgcgctag 300
ttctaaagat caccggtgag caaaaacttt tcatgaccat gtgtttgtct tatcatttga 360
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<210> 54834

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E4

<400> 54834

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gggggaatat tgtcaactat atgaataggt acaggcatta aaattaattg tgcagcattt 120
 tgctaaaact caaaatgtaa atgaaactta ttacggaaca ctt 163

<210> 54835
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G1

<400> 54835

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 tggagattct tgcccctatc aagtactgag gagctgtgct ttgtcatcag ttttggggaa 120
 catctagtct ttgttttaag tgttcggtaa cagtttgtga cagtataatc tggtaaaccg 180
 tgttattttt ctgccactcc tatttgaaca cattttct 218

<210> 54836
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D10

<400> 54836

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 tcaaaaggct gtgacaacaa agggacctta tagaatacct cttgtagaaa agccagaaat 180
 caagaaggct tgaagcaaca atataatgga gaggaagacc aaaatgggtgg gagcaatgca 240
 actactggag gtgctcggaa aaaaaagggt gggcatgtaa gacaatcaat tgctactcat 300
 gatgccattg ataaaaatta tagtggcagt tcaacttaag gtttaaggaa caagatacag 360
 aattctgctg ttcaaagcgc ttcggtaagc agaaggaag ggttgaagca acgatctgat 420

<210> 54837
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D11

<400> 54837

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acgcttccca gccatctggg tatctactgg agaacccttc cggctcgcca gtggctaggc 180

accttgcgga gaggactaac ggtacaaaaa ctggcctact gagcaaagt gacggagagt 240

gcctagtcaa atcaactctt cttgaaggaa ctttgcgcg aatagtgtct cttatcatct 300

tgatatcagg gctcatgtgt atgatgggaa tcgatactcc ctccaagttt gaagctcccc 360

aggagtcttg atctcccttc gaagcagaac cttgttttg ttggtctgca ctgtggatag 420

atattattca gt 432

<210> 54838

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D12

<400> 54838

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tcccgatggc ccgcacgaag cagacggcga ggaagtccac tggcggcaag gcgcctagga 120

agcagctggc cacgaaggcg gctcgcaagt ctgccccggc taccggcgga gtgaagaagc 180

cccaccgttt ccgccccggc accgtcgcg tccgggagat ccgcaagtac cagaagagca 240

eggagctgct gatccgcaag ctgccgttcc agcgctggg gcgtgagatc gccaggatt 300

tcaagaccga cttcgcttc cagagctccg ccgtcgccgc gctgcaggag gcgtccgagg 360

cctaccttgt cgggctcttc gaggacacca acctctgcgc cattcacgcc aagcgcgta 420

ccatcatgcc caaggaca 438

<210> 54839

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D2

<400> 54839

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 gaagtacctt gctgcatacg ttatggagtt ggcaggggaac gcggcgagag acaacatgaa 180
 gacgctcatc attccgcgcc acgtgcttgt gacgatccgc atcgactatg agctcggcta 240
 gctgctggca agtgtcacca tctttcacag gggcgtactg ggcaacatcc agtgcgtgct 300
 aatgtccaag aatgcggcgg aaaaagcggc cagcgccgtc agcaaggagc ccaaagccc 360
 caagaagggc gccatttcca acaagaaggc ttacaaagta gggactgtat ttgcactgtg 420
 tgctgtagca tgctcgcgtc tagatct 447

<210> 54840
 <211> 319
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-D3
 <400> 54840

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 tgaaacgatg aaaatgtcta acgcactgaa ttagtcttct ttaatatctt tcataaatta 120
 aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaataa tgtaattaaa aaataaaaag gtaggacctt ttaaatgtta aaatcttaaa 240
 taactttaat ggcacactaa aacctattaa ttgggggacc taaaaaaaaa ttaatccggg 300
 gaaaatttaa aaagtttcc 319

<210> 54841
 <211> 143
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-D7
 <400> 54841

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 atgaaaaatt aataacgcac tgaaattaat cttatttaat atttttcata aattaaaaat 120
 gcaaaatact ctactataat ata 143

<210> 54842
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D9

<400> 54842

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gtagtgagtg ccacatatca tcttccactg atatagcatt cagtttttgt attttcagta  120
atgcagtagt aatgtactta tggcagtatg cactttgcgg ctgaaatttt agacgggttca  180
acttcagaga tggctaacaa tgggtctgag tcaacaatgg atgcgaagcg tagggccagt  240
cctgtaccag cacatcataa ctccaggcag atgaacaaca atcatcattc tacaactact  300
actactacca ccaccacgtc atctgctcca gctaaagtga caaaggagca aaagcagagt  360
cttgtggacc ttgacaggct tgattctgcc aggaagaggc tccaggagaa ttaccaagaa  420
gcacaaaatg                                     430

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<210> 54843
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E1

<400> 54843

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ctgggcttca gccatgaggt gcagttcacc gtcctccag ctgtccgtgt cttctgcttc  120
aaaccaaca taatctgctg caccggcatc gataaggaca ggggtgcacca gttcgccggc  180
gccatccgga gctctaaggc tccagaggtg tacaagggga aggggaccc tgcattgac  240
gaggttatca agctgaagcc cggaagaag cgaaaaaata agtgacgac cgaaggcggt  300
acaacttttt ctgtctttta accccatgct tcgcatttgt agtgatctgg atctggggtc  360
tgctgtgttg tgttgtgtac ttgcgttgtg ctacacagat caccattatc ttacctttac  420
ctcagctgca tgtaggacca tgagtgg                                     447

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<210> 54844

<211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-E10

 <400> 54844

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 tcaaaggctg ggcttaaggc tcctcacaac ctttatgtga tgacggcgac actactagct 120
 cgtagcaacc gttacgctga aatagcattg tttgtgtcaa acaagattct tgagccgtgt 180
 aaagaactgg caatgcaact tatggagctg ggtctgcagc acccgccaac gaggaagctg 240
 ggcatggaca tgctgagggg gcgaggcctg catcacgact acgtgactgc gatgctgcaa 300
 gatgggtact acttggaggc cctgcgctat gccagaaaat acaaggatgat caccgtgcag 360
 cctgccctat ttctggagaa agccctggcg aagaacagcg cccacaacct ggctgcagtg 420
 ctgagcttct tctgcg 436

<210> 54845
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-E11

 <400> 54845

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 ttgacttcta ttattccagt ctcttaattt cttttctttt gcctaatttt ttttaattct 180
 tgttctgtta aaccccatgt attttcccat attattctgc ttttcaacac tttccccttt 240
 ttccatttga cgtattttcc ataagtcctt tacggttcgc ctttcctttc agttatgctt 300
 tctaactgct aattggcacc ctcatTTTTT cttatcatta atcccaatgc tttttttggc 360
 tatcgggtatt ctataccctt tcctctttta accccctatt tctaattttt ttcccttttt 420
 ttctttcttt tctttt 436

<210> 54846
 <211> 443
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E3

<400> 54846

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catgccaaag gacattcagc tggcaaggag gatccgcggc gagagggcct aatcgccacc 120
tcaaacatcg tgacaaaaac atgaagtcct ggggttattg ttaatctggg gccattgtaa 180
ggacatatga gtagggtttg ttttgtggat cgcaagtttc tcttctgcta ctgttgctgc 240
tacctttgct ggtgttattg ctagggtcga atacttaagt taactatgcg ctgacagtct 300
ggactagcag tgttatgtgc gctgctggac cttgcgcgca atgctgtggc cgatttgttc 360
gttaatgtca agaattgtgt tacagtgcgt gtatatatgt gtgtcgccgc atttttatatt 420
ttgagaattg ttttaagctg aaa 443

<210> 54847

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C9

<400> 54847

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gctaacttta caccgtcaag gtgagcagat catgcggtct catcaagtag cagctgacat 120
tgagcaggac cttacagtga gtgagaagct tctgggaagt ctgggtgggc tattttccaa 180
gtcatggaga ccaaagagaa atcatcagat aaaaggacca gtctcaggaa ataactattc 240
tgcgacaaca gctaacgaca cggaacagag ggggaagcta ggaattgcc cagcacgtca 300
agaatatccc agtcatgtac aaaccacact agtatctgca atggaaaaag ttcaagctga 360
gagaacaaag caggatgatg cactttccga cctgtgtagc acattgggac aactcaagga 420

<210> 54848

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B4

<400> 54848

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ggactttgcg aagcagctac catgggttctc ggcatataca ttcaacctac atgcgaacag 120

gattactgct gagactctga ctgggtgctgg tgttcttagc gctgattgga acatcaatgg 180

tgactggcct gctgtggaga acacctctga gcttactttt gacctgatat tgtctgcgac 240

atgcgcgaca cactgagact gacaggacac aaactggtag gtgacaggcc atcaaaacgg 300

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cgaatcacct 370

<210> 54849

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B5

<400> 54849

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gtgaaccgct tatacgtcac agaggagggg gctataagcg aatcagtacc aggtaacata 120

cagtgcgtct ttaaggcgtt ggagcagcac ctttacacct ctgaaggaat tctggaaagt 180

tatga 185

<210> 54850

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B8

<400> 54850

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ggtagggcgg cggcgccaac tcgctcgctt acggctactc ccgcggcacc ggctcggcgg 180

ccgagatcat cggcaccttc gtgctcgtct acaccgtctt ctccgccacc gaccccaagc 240

gcaacgcccg cgactccac gtcccggttc tggctccctt ccccatcggc ttcgcccgtgt 300

tcatgggtgca cctggccacc atccccgtca ccggcaccgg catcaaccgg gccaggagcc 360
 tgggcgccgc cgtcatctac aacaaggaca agccctggga cgaccactgg atcttctggg 420
 tgggccctct cgtgggcg 438

<210> 54851

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B9

<400> 54851

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 gggattaccc atcggcgat tccatatgct ggtggacacg ctctgctgt ctaacgggct 120
 atcgattgtc agacacctga caacctggga gaatccctag gcaatgatgc cggagctgac 180
 catgcgagac gcttgtgaca agctcggcat ctacagtctc ttcaatttaa gactccttct 240
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<210> 54852

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C1

<400> 54852

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 acgtcgaggt gctggagctg cgcgtgtcgg aggtgggcca ccacgtgctg gtggtcagcg 180
 tgacgtgccg caagcgacgc gacgccatgg ccagggtgtg ccgcgccatc gaggacctcc 240
 ggctccgtgt catcactgcc aacgtcacct ccgtcgccgg ctgccacgtg cacaccgtct 300
 tcgtcgaggt agataaaatc gaccacatcc aagtgaagaa catgattgag gctgctctca 360
 cgttgctcga cgcggccgga agcccccaca gctcgatgag ctattacgag acctaactat 420
 gttgagcaat gcttttccga cgtctacta 449

<210> 54853

<211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-C11

 <400> 54853

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 gactacgctc agaccagacc taaacagcac ttgcctatca atgagaaaat atgtctgctt 180
 cccatggata tggatcgcta ttccagatac gtttacaact tacacaaaga cattaaccat 240
 gcgagctttg ttttaatctg atgtgttatc ctaagttgtg aatgctgaat aaatcaacat 300
 ctagtcatct ctaataatgt tgtgatatgt tatgccaac ggctgtattc caatcaatat 360
 tgatttattt tgcaaaaaac aaaataac 388

<210> 54854
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-C12

 <400> 54854

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 cctccgacaa gggcgataac accggcgctca ccgccaaggg catccccaac agcattttcca 180
 tctgattcga tcgagtcctg gccagcgttt cacccaaaaa agcagagcta gcggtgattc 240
 ccgtatgtca tccgtttcat tttttacatg aatgagaagc gtggtaataa aaaggtttgt 300
 agttgcgtgc gcgccgtgta ttccttggtg tactggtgct ggcggttaacc acttattacc 360
 agggatcctt gtaatttttc ctgttggttt cccaataata atgtgaatat attggtcaca 420
 tgcattggtgt 430

<210> 54855
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C2

<400> 54855

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gttgataatg gtgtgttttg ccatatatag caatggacca ttccatttta tggacaattg 180
acttctgggt ggttggctat acaaaccata ggtaggtctg taatgactat tctaactcga 240
tggaccgaac tattgtatgc agactactcc aaactggaat catgaataaa atgtgggtact 300
atatgctcgt agacattttc 320

<210> 54856

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C3

<400> 54856

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gaaggtgctc aacagaacaa aggagaccaa gatcactggg gccaatgctt ccctgaaatc 180
acatgcccct cttgtgcacc tgtccgcgct tccagaaggc accgttggtg actcgagata 240
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ggccatcatg tactgatttt cccttttcaa cagttgtcgt gaggtgtat cttctggagt 360
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<210> 54857

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C5

<400> 54857

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aatcggtgac gtttcccttg tctcgaccct gtgatgcagg ggagcaatgc tttctcagtt 180
atgggaaaca tccagggtcg catcttgata cgctctatgg attcctacca agaggagaca 240
acccttatga tgatatacct ttagatcttg acacatcccc cgatgacgag gacatcgag 300
ctcagccttc ggcgactaca agccaaacaa ctcatatgga tcgtgggaca tggctgtcga 360
catccggagg attccccacg tatggcctgc cccagccctt gctgacctat ctccgtgctg 420
ctctaggctg tg 432

<210> 54858
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C7

<400> 54858

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tcgcatggag tgtcaaacat ttattaaacg catgtggaat caaatgaagt tggactaata 120
aagacaacaa caaaagcaaa caaatcaat aagagacatg ctataagtga aatgacaagc 180
acatcatgat caccatgtaa gaacttacat aaggacctgg ctgtgaatcg aaatatcgaa 240
agccctttaa gaaagaaact gtactgacta tttaatg 277

<210> 54859
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-044-Q1-K1-B3

<400> 54859

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aagtccgtct tcaagccctg ggagcagcgc cttgacacct cgggggggttt tctggagagt 180
aatgagggtg accctgagct acttatcttc atcccggttca catcagatgt taagatcaag 240
agcatttctg ttgttggtgg tgctgatgga acaagcccgt caagaatgag agcgtttatc 300
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383

<210> 54860

<211> 454

<212> DNA

<213> Zea mays

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<400> 54860

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ccaagccaag ccaagcagga agggccccgg cattgctagc tgtacgtgtc tgtgtgtgca 240
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tctgtgcatg catgtacat gtcgtcgtgc atgtctatta tgtgtgtgtc gtcgtgtcga 420
tcggtacgta tagatgcctg gtgttagcat gtgt 454

<210> 54861

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A10

<400> 54861

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gcgtgaggcc gcccaagaag ggttcagctg ttcagcgcgc tcgcaccagg actctgactg 120
ctgtccatga tggcatcctg gaggatgttg tcttcccagc tgagattgtg gggaagcgtg 180
tcaggatccg tctggatggt gccaatgca tcaagatctt cttggaccca aaggagagga 240
acaacaccga atacaagctg gacacctaca ctacggtcta ccgcaggctg tgtgggaaag 300
atgtggtctt tgagtacct atggccgaaa atgcataaat atgacgccc gatatcccca 360
ttttatcttg ttgaatctgg atgtttcttt ggggtctcaa ctagactgct ccgtatgtac 420
ttcaaaaacc at 432

<210> 54862
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A12

<400> 54862

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aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaata aaggtacctt aactatataa gatttaaaaa aaaaatcatt ttgaaaacaa 240
cttaaaatta tcataaaagg gaccccataa atgtaattt aatctaaggt gtaaaaaaaaa 300
aaatacttaa atggaaa 317

<210> 54863
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A3

<400> 54863

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gctccaagag caacaccagc agggacgcgg gcatggacgg caccgcagca agagccaaca 120
aggacgcgaa caagggcacg gccggacgca cggccaacaa gccgaggacg aagtcctgta 180
cgaggtccct gaaggcccgg ctgcagcgca tcgtgcggcg tatgaagaag gatctgaaca 240
aggaccgcga cgcgcagggc gtccgcacgt acgtggccgt ctacctggac gacgtgctcg 300
agtacgtggt cgaccaggtg ctggaccttg ccgacgacaa tgacaaggac aacatgatga 360
cgcgcatcat gctgctggac atgctcatgg acaagcagct cgacgaggag ctgggcaagc 420
tgatgatcgg cgacagca 438

<210> 54864
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A4

<400> 54864

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ggaaaaaatt agaaaaattt ataacaaata atatataaat atatctcact tattttattg 120
ttt 123

<210> 54865

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A5

<400> 54865

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ggccaaggg caacaccacc agggacgccg gcatagacgc caccgcagca agagccaaca 120
agaacgcgaa caagggcacg gccggccgca cggccaacaa gtcgaggaag aagtccgtga 180
cgaggtccct gaaggtccgg ctgcagctca tcgtgcggca tatgaagcag ggtctgaaca 240
aggaccgcta cgcgccagggc gcccgcacgt acgtcgccgt ctacctggac tacctgctcg 300
actacgtgct cgaccaggtc ctggaccttg ccaacgacaa tgacaaggac cacatgatga 360
cccgaacat gctgctcgac atgctcatgg a 391

<210> 54866

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A6

<400> 54866

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ggtaa atgga aaagtggcta catactacag caacagagct gctgcctttc tagaactaac 120
tagctaccgt caggctgagg cagattgcac aagtgccatc gaacttgatt ccaagagcgt 180
gaaagcttat ttacggagag gcactgcaag ggagatgcta ggttattata aggaggccgt 240
tgatgatttc aaccacgccc ttgttctaga accaatgaac aagacggctg gtgttgccat 300

caacagggtta aagaagctgt ttccttgaat atgaagctgc atgaagatat gataacctca 360
tattttgtgc acacacaagt tgtgcgtgtc agtggggtgg gattgaagta cctgagttca 420
accgacggat gctgatcac 439

<210> 54867

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A7

<400> 54867

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ggtggaacat aataaaacac agggacgcgt acaaagtctg caccacaagc agagtacaaa 120
cagaggctat taattgctgt gaaccaccaa tggttgagac gtcaatgaat aggtaaacta 180
ttaacttgct ctttttcgag ctctttctca ttgattgtat tctatgtaag gactcgacga 240
tggtacgtctt gcacacacga atccaatcat tgtagtctga aaacttgaaa acgtactcga 300
ataagtggtc gaactgggtc tgaaaattgc cggccactct agcagggtcca acatta 356

<210> 54868

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A8

<400> 54868

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gtaattatatt atgcgacata acctgtgcta ttgtaatgtg tcacatgctt atatttgcaa 120
taaacagctc taggtgggtc gctttgtctg ccgcaatgag cagtgtatcg atattgtggg 180
tttgaattgt ttggatctag aaaaaaaaaa aaaaaaaaaa caaatagaaa aaaaataaaa 240
acaagaaaaa taataaaaca atgcatgg 268

<210> 54869

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-044-Q1-K1-A9

<400> 54869

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aagggtcctg aactgcttac catgtgggtt ggtgagagtg aggccaatgt ccgtgagatt 120
tttgacaagg ctaggcagtc tgctccatgt gtcctctttt ttgatgagct cgactccatt 180
gctactcaga gaggaagcag tgttgggtgac gccggtggtg ctgctgatag ggtgttgaac 240
cagctgctta ctgagatgga tggcatgaat gccaagaaga cggtttttat tatcggtgca 300
actaacagac cggacatcat tgaccagcc ttgctgaggc ctgngcgtct tgatcagctt 360
atctatattc ctctgccga tgagcagtc aggcttcaga tcttcaaagc ctgtctcagg 420
aagtc 425

<210> 54870
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B10

<400> 54870

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ggcccgtttc gaacagagcc acataggacg atcccattgc caataccgct ccttccgcga 120
agaactccaa tgcggcaaag cctatcacag catgcaaata cgccttcaca gactacggca 180
agggaataga ggtgccggtc gaaggtaag aagagcagtg cagacctaca acatctacat 240
cttcaaggcg ctgtagcagg tgcacgcgaa catcaacatc ttctataacg tcatgtgcat 300
catgaactac ttgatcaacg acatcttcca gaagctcgcc gtcgaggccg tcaagctcac 360
gcggtacaac aagaagctca ccatcacgtc ccgtgagatc cagatcttcc tgcgcct 417

<210> 54871
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B11

<400> 54871

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gttcgcgaag gcattgaaat tgttgtctct gtgggcacat cgatgcctca agtattgtcg 120
attctggaaa ctgagccaaa ccagttgaac aggatcagat ccacccgaag ctgagatgac 180
ttcacatttt gtaatttcgt gttacaaagt ccttgttgta caagagtagg ttctgacaga 240
ttgtacagtt ctctgggta gaaagcaaaa tctgtttgtg aacacatctc acctgaacgc 300
gattgcttgt atggccgtct cagcttcttc agaaatgtaa cttagcagtt gagtagagtt 360
gacctatgtt aagagttgtc aagttttgaa gtggaagaat tttcttaacc atttg 415

<210> 54872

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B12

<400> 54872

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gcctgcgggc atggcggggc cgatcactgc tcttccggac ctcccagca tccacacgac 120
gatcgacaag accaagcgcg ccattggca cacggcacat acggacgcct gacgcacgca 180
ctgtgcacac gagatcggac tttgagcgag acctacatag gccactgtat gacaatcctg 240
ccatggcgta agcagatgcg tagctgtaat ctgtataaga agacactatg tatgagctcc 300
tgcggaacct tagaaagtgc atagctgtga ccaaactgga ctctcacggg ctgaagaagc 360
cggcggaccg tgctgatgat acaaggttac tgacggatgc atgcgactag atcattgaca 420
tgc 423

<210> 54873

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-G10

<400> 54873

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gtaggaaatg caggacgtga acaggcnaac gaactcaagg atggcttggc tagggttcct 120
 ctcccttggc gtctgcttat cagtggcagg tttgcagctg tggcacctga agaccttctt 180
 tgaaaggaag aagttgttgt agactgtagt tggcccatgg ttcacggtag acctcagcgc 240
 aggtgtaacc tatttttggg tgaactgccg atctgttacg gagcttgaaa tcccatgtaa 300
 caaacgttat gtcgtacttg agaaaatatg ctttagcctg tccagttgaa attataagaa 360
 acttgaaata gatactaaat tgt 383

<210> 54874
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-G11
 <400> 54874

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 cgcgtagagg ccgtgtcgac cgctcggtgct aatgagggat cgccgaagca tgagtacacg 120
 gtgaccggcg tggagcgcg cgtcgggcg accgacgacg acggccgggc cgtggcctgc 180
 cacgcggagc cgtacgcgta cgccgtgttc gcgtgccacc tgacgcggca gacgcgggcg 240
 tactcggtgt cgatgctcgg cagggacggc acggacgtgg acgctgtcgc ggtgtgccac 300
 gccgacacgt ncggctggaa cccaagcac gtcgccttac aaatgctcaa cgtga 355

<210> 54875
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-G12
 <400> 54875

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 gacgatggcg gcggccggcg gcgagaacag cggcgcgggc gagggcgagg gcgagtttta 120
 cctgcgctac tacgtgggtc acaagggcaa gttcgggcac gagttcctcg agttcgagtt 180
 ccgccccgac ggcaagctcc gctacgcaa caactccaac tacaagaacg acaccatgat 240

ccgcaaggag gtcttcgtct cgccctccgt cctccgcgag gccaggagga tcatccagga 300
 gtccgacatc atgaaggagg acgacagcaa ctggcccgag cccgaccgca tcggccgnca 360
 ggagctcgag atcgtcattg ggcacgagc 389

<210> 54876
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-043-Q1-K1-G4
 <400> 54876

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 ttgggcgata ttttgaaact tcttcagtgc cgtgtttttt cggatccata tgcttagaac 120
 agaacaaata tcaaggagta cggacaagaa gaaattttta gctcttcttg gcttcgaggt 180
 ccttgtggtt gctttctcct ccgttctctg gtttatgttc aaagatggct acgttgatac 240
 cagcggatcc agctttgaat cttggacgtt cgggatgctc tgggatacca cagtttcgtt 300
 tccttgata ccagcattgt aactgggggt tctttctacg gtgttatgca tgtg 354

<210> 54877
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-G6
 <400> 54877

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 agaggaaatg catgacgtga acaggcgaac gaactcaagg atggcttggc tagggttcct 120
 ctcccttggc gtctgcttat cagtggcagg tttgcagctg tggcacctga agaccttctt 180
 tgaaaggaag aagttgttgt agactgtagt tggcccatgg ttcacggtag acctcagcgc 240
 aggtgtaacc tatttttggg tgaactgccg atctgttacg gagcttgaaa tcccatgtaa 300
 caaacgttat gtcgtacttg agaaaatatg ctttagcctg tccagttgaa atttatagaa 360
 aacttgaata gatactanat tgtcttcc 388

<210> 54878
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-G7

 <400> 54878

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 gtgtcatcag ttttggggaa catctagtct ttgttttaag tggttcggtaa cagtttctga 120
 cagtataatc tggtaaaccg tggtattttt ctgccactcc tatttgaaca cattttctag 180
 ctggtgaatg aactgtttgg tcgatcttgt tcagatgtct gggttcgcatt cgcattctga 240
 gagatttcat gtctcgtgct gactcaagct gtcacgcca tgtgcttctt gcacacgatt 300
 atcaattcag tagttgtgat 320

<210> 54879
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-G8

 <400> 54879

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 ccgccgacaa ggctaagggc aagtttactg ccgatgacgt cgctgccgcc gccgctggtg 120
 gcgccgccac cggcgccctct ctccaggaga tcgactagac tcttcacggt catctgatgg 180
 ttgtcgtacc gccttttcct catctcttta gtttttgcta ccaattgtta tgtgatagag 240
 gtcttatggt atttgaaaac tgctctgtgc ctggatgaga gttttggaac ataattgtgaa 300
 cctgtgtgtc tgtgacctga gctttgaaga tctcattatg t 341

<210> 54880
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-H1

 <400> 54880

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 agccacatgc ccagatactt gaggcaactt gattccaaat acgactttta gtaacctatt 120
 gtgtcgtata attccgttat tctctgctag acctagtaat ggggaacaac tatctccaaa 180
 agtaacattt ggttaggtga ccaatgatgc tttcagataa ctgcaacgtc tgatgtcatc 240
 taagttegct cagtatatat atgacaaaag tgcatacagat ttttctcact caattcttct 300
 tcctagtttg gtagacaaaa gttgagcatt agaaagcata aatttctcag gagaagcttg 360
 cagacagaca nctgttttg 379

<210> 54881
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-043-Q1-K1-H10
 <400> 54881

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 gtgggaagac cctatttgtg cgaatgggtg taaatggacc atcagctgtg gaagaggaaa 120
 atctgataca ttttggtgct acactctgct ggctatgatt ggtgaacaat tcgactatgg 180
 tgatgaaatt tgtggcgag ttgtcagtg gcgtgggaag caagaaagaa ttgctatctg 240
 gacaaaaaat gctgccaatg aagctgctca ggtaagcatc gggaagcagt ggaaggaact 300
 tctggactac aaggactcca ttggattcat tgttcatgac gatgcaaaga agatggacaa 360
 aggccctg 367

<210> 54882
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-H11
 <400> 54882

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tcatcttcag gctggtgcag gcattgttgc cgacagtagc ccagatgacg aacaacgtga 180
atgcgagaat aaggctgctg cactagctcg ggccatcgat cttgcagagt cagcctttgt 240
agacaaagaa tagtgtgcta tggttatcgt ttagttcttg ttcattgttc ttttaccac 300
tttccgttaa aaaaagatgt cattagtggg tggagaaaag caataagact gttctctaga 360
gaaaccgaag aaatatggnn aatgaggtta tggcttatga cttgtcgttg ttcagtatg 419

<210> 54883

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H12

<400> 54883

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accgctacct tcgatggcac ccagggcgga caagaagccg gcggcgaata agcctgcaga 120
ggaggagccc gcgacagaga aggcggagaa ggctccggcg gggaagaagc ccaaggccga 180
gaagcgctc ccggcgggca agtccgcccg taaggagggc ggcgagggca ataaggggaa 240
aaagatagcg aagaagtccg tggagacctt caagatctac atctttaagg tgctgaagca 300
ggtgcacccc gacatcggca 320

<210> 54884

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H2

<400> 54884

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gctttgatta ctggaaatgt gttgacaaga atgttgcaaa aaaactcttt gagatgttaa 120
aatgacaaga aaagttttcc ctacttcagt tatccacca aagttggtaa taattgtatc 180
acttgtgtgg cctatagact attaaggcgc tcaatatttg ttagagaagt tttgccactt 240
gggtaacaca aattttccac tgccagtttg catttcattt ctgctactag tattgaacca 300
gcaggtttcc tcctgcattg ttggataaaa aatccatcga atatttaca gattgtggct 360

gattattaaa tgctgtaata caccttaatt ggctttt

397

<210> 54885

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-H3

<400> 54885

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cgcagagata tttgttgatc atgatgtata cctgccacct gcccgaagcc atcatgatgc 120

tcatggccag ttttgctctg gaggtattgt attggcttct cgagatggaa agattgtgtt 180

tgagagtaca cttgacgcaa gactagaagt tgttttccgc aagaaattgc cagagatccg 240

gaagcttctt tttggccaga ctgcagccta atcgactcat ctgccgatgg tacgactgct 300

tctatgtaat 310

<210> 54886

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H4

<400> 54886

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gttgatattc aaacatttga tgtgacacga actaaactta agtcagggga accatgtgag 120

ccattaatac tgggtttaac ttctttttat ctccaggttt actctccttg gcctaatacca 180

tttttcagga tttttgatgg aagaaattca tgtgagcata tgcatgcaca cataaacctg 240

tgttgtttca gcctttcagg atacagcatg gtgagcagga ccagttgggc acgtgctcca 300

tcgactgcgg gtgca 315

<210> 54887

<211> 76

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-H6

<400> 54887

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gggggnggggt tnatttt 76

<210> 54888

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-G1

<400> 54888

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gcccaccaac ttccgcaagc agctcactgt gcagctgaag aagctcgctg ccgccggcaa 120

gctgacgagg gtgaagaact ccttcaagct gccggccacc gacgccaagc ccaaggccgc 180

caagcccaag gcaccaagc cgcgcgccaa gcccaagccc tcgccgaagg cgaaggccaa 240

gaccgctgcy aagcccaagg cggcgctgcc caaacccaag gcccaaggcca aggcccaagcc 300

tgtegtcctt gccgcgcgt cgcccaagcc ccgcgggcgc cc 342

<210> 54889

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H8

<400> 54889

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cggctacaac atgcgctaca cgatcaagga ctagaagatt gcgtacaagc tgacggtcga 120

tgactagaag aagatcgagg acgccatcta cgcggtcatc agctggctgg acgccaacca 180

gctcgacgag gcagacgagt tctatgacat gatgaaggat ctggagagtc tctgctaccc 240

tatgattgtc aagatgtacc tatgcgctgg tcaagacatg ggccggcgctg gcggtatgga 300

cgacgacgcc 310

<210> 54890
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-E5

<400> 54890

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gagaagatgg ctcgtagcaa gcagaccgcc cgcaagtcca ccggaggcaa ggccccgcgc 120
aagcagctcg ccaccaaggc ggcgaggaag tcggcgccga cgaccggcgg cgtgaagaag 180
ccccacaggt acaggccccg caccgtggcg ctgcgcgaga tccgcangta ccagaagagc 240
acggagctgc tcatccggaa gttgcccttc cagcgccctgg tccgtgagat cgctcaggac 300
ttcaagacgg atctgcggtt ccagagccac gccgtcctgg ccctccagga agccgccgag 360
gcctacctcg tcggtctggt cgaggacacc aacctctgcg ccatccacgc caagcgcgtc 420
accatcatgc cc 432

<210> 54891
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-E6

<400> 54891

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gcctcgtgga ctacatcatt tctggccctg tgggtggccat ggtctgggag ggcaagagcg 120
tcgtcacaac tggccgcaag atcattggcg ccaccaaccc cctgggttct gagcccggca 180
ccatccgtgg cgactttgct gtcgacattg gcaggaatgt cattcatgga agtgacagca 240
ttgagagtgc taataaggag attgccctgt ggttccccga gggccctgct gattggcaga 300
gcagccagca cccctggatc tacgagaagt aaacatggaa aggttcacat caaaccttga 360
gagccagagg aagcatgtca ccatttgtgc tttagcaatg ttttcgaaaa gattatgatc 420
tgtatcttg 429

<210> 54892

<211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-E7

 <400> 54892

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ggacgtgtat tgccgtagag acacagattc ggcaaggaat cccgacgtta tgtgcagagg   180
ttttgttatg tgcgtacgga ccagagaagg agagacggta gctgctgccg gctgcagagt   240
agcaagcatc ctttgcggtg tactgtagtc gcagactcgg tagcagagca gatggatcgg   300
caagaagctt ctggtaggca ggcttttggg tttcctcagg cccccgggag atgctcttta   360
cctatgagca ccctntttgg acgtgctggt agctggatgt gtatatacac tgaccgtcnt   420
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<210> 54893
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-E8

 <400> 54893

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gcgtgatgag cagagctaaa gaaaggcctt cgctggactg cgtgctggag caacggcgat   180
cgatcgatct agcgtgggga gaggcggata ggcgggcgcg cgagggagga gaataagttt   240
gtgccggtgg cccggtctcg tcggtcgctt ttgttccagc atgcagctgc gtcgcgttcg   300
tgtgcgtgcg tgggggtctc cttaatttcc ccggcccttg taatcatcaa tcaccatgtg   360
tgcgtataat atctgctgcc aaaggatcga ttattcccc cccc                               404
  
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<210> 54894
 <211> 245
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-E9

<400> 54894

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tgtttgcaaa tatgtacaaa acataataac atgtgtaggt tttgtgaatg attttgttgt 120
ggtgcttatt gatggtttat gtgatgtgga tcanaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg gaaaaataaa 240
aagat 245

<210> 54895
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-F1

<400> 54895

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ccgagggtcgc catcaccatc cncaaacgct gcaacctcgc cgaccgcccc gttgggtaca 120
agtgcggaga ttacaccctg ccatgagcgg cggtgagttc tccaggtcgg atttgctgca 180
tggtcatgcc gagtatcacc aaagcgcgag ctcttgtgtc gagcgagtcc gtgtctgtcg 240
tcagtcagtc tctatgtgtt gcccatagta aacaaagaca tgcgagtacc agacatgtgc 300
aactctagta gcatgggtgcg tgtatcacta ggtacgcgta ctctgtatcgt tgtgttcagt 360
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tgaaatg 427

<210> 54896
<211> 470
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-F10

<400> 54896

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 tcatgccaac cagctcgcctc aagccaagtg ttgaccggaa atgcgtatag gttctggatt 180
 attattttta gtgtatatag gatgggtgatt gttcagcaaa gtttgctcaa gtaaaaaaaaa 240
 aaggatgatcc tcattcctcc tctgttttta ttgtgattat ttttttagt gtatatagga 300
 tggatgattga acagcttgca accttgcaact tgcagcatat tccatccact ggaaataatt 360
 ttctgcagct aatctgcata gcgcaatcct tgagtaatct gatcgatata agagcagcat 420
 gtagtacctg gacctgatct tcttctttta nggaaaaaaaa acaaactaca 470

<210> 54897
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F11
 <400> 54897

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 tccccactc gccagtcgca gcagcacctg tagccatgga cgccagcgga gccggtagca 120
 aggggaagaa ggggtgcggcc gggcgcaagg caggcggccc caggaagaag tcggtgacgc 180
 ggtccgtcaa ggccgggctg cagttccccg tcggccggat cgggcgctac ctgaagaagg 240
 gccggtagc gcagcgcgtg ggcaactggc ccccgctcta cctcgccgnc gtctggagt 300
 a 301

<210> 54898
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F12
 <400> 54898

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 tggagacgag tgccaaaaac gccatcaacg tggagcaggc cttcatggct atggctgcat 120

ccatcaagga taggatggcc agccaaccag ccgcggccaa cgcaaggcca gcgaccgtgc 180
 agatccgcgg gcaacccgtc aaccagaaga cgtcttgctg ctcgtcctaa gattgcctca 240
 tttccttggt tccttgtagc tatttctacg gtttggtgcgc gcacgcaa atgtatttgc 300
 tattcctgat agcatctatt cgttggccag atgattagag agctgaaa atattaagaa 360
 caataccata gagagaagtt cctcagtgtc ctcgcagctt aaggagcaaa cagcaacact 420
 ntaccttcgt ttttatactt tattat 446

<210> 54899
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F2

<400> 54899
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 agactgttgc ctcagaagct gctgctgctg cccctgcccc tccagtgatg aatgctgacg 120
 cttgcagcat ccattctaag gctttccaag attgtctcaa caactatggc agcgagatca 180
 gcaagtgcc a gttctaccta gacatgctga acgagtgcgc ccgtgggtgggt gtgtctgcct 240
 aagctgcttc tgggggttatt cgtggatttt ctttcgggtga tgctatctca ttaataagat 300
 accgtgaaac ttttgtctcc acagcttgaa gctaaacttc ctgggattaa tacattttgt 360
 tatectatgc tgttggagca gacttttgtc tctttgatca taaatattan acg 413

<210> 54900
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F3

<400> 54900
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 gcctccgtcg gatgcgcaag caggaggcgg acgcgcggcc cgctgtgcct ccttgcgccc 180

ccatcgcccc aggagaccg tctgtctcgc ctgtccatc cggccccgtc gtcgaagagt 240
cctcttcgcc ggcgtcgcgc ccgtctctgt gtttcccatg tctgtggcggc gtgctcctct 300
gcgcgggcgc cgcacaacct catgtcagct ttcgtcgtg cgatgcccac ggccggcggt 360
ngtgcctctc ctactncacg cccacctttc gccgaccttc agctgcgcgt cgtgatgcag 420
cgagactcga gcttgctgtt cctgtacgcg tc 452

<210> 54901
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-F4

<400> 54901

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agagggggga gacctacaag aactacatct tcaaagtgtt taaacagggg caccgggaca 120
tcggcatctc ctctaagcca tgtccatcat gaactccttc atcaacgaca tcttcgagaa 180
gctcgcgccg gagggccgca agctcgcgcg gtacaacaag aagcccacca tcacctcccg 240
tgagatccag acctccgtgc gctcgtcct ccccgngag ctgccaagc acgccgtctt 300
cgagggcacc aaggccgtca ccaagttcac ctgcctctaa gctgcgtggc ctccgcttgc 360
aggcttcctt cgtatgttcg cgtgtcttgc tgtagttagg tgctgctgtg tctgggc 417

<210> 54902
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-F6

<400> 54902

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tgatgggaag cattgttggg gtctacaacg gcaagacctt caaccagggt gagatcaagc 120
ctgagatgat cggccactac cttgctgagt tttccatctc ctacaagccg gtcaagcacg 180
gcaggcccgg tatcggtgcc accactcct ctggttttat tctctgaaa tgagctgtta 240
cccggctttg tagtctccca agagtccggg ggcatgttc attcagctct tctacttggt 300

ttgaacaagt taaatgccca agacattttg ttctgttcca ttccagctca agaattcaaa 360
gctaagcatt gcacacttta tgcttggttg tggaagtatt tgagttaatc atatctaa 418

<210> 54903
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-F8

<400> 54903

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ctccaccggc accggagcag ggggtaaggg gaagaaggga gcggccgggc gcaaggtcgg 120
cgggccaagg aagaagtcgg tgtcgaggtc cgtgaaggcc ggtctccagt tccccgtcgg 180
ccgcatcggg cgtacttga agaagggccg ctacgcgcag cgtgtcggca ccggcgcccc 240
cgtctacctc gccgctgtcc tcgaatacct cgccgctgag gttctggagc tcgccggtaa 300
tgctgccagg gacaacaaga agactcgcat tattccgcgc cacgtgcttc tggcgatccg 360
gaacgacgag gagcttggg 379

<210> 54904
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-F9

<400> 54904

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actttggaag atcgaagata tcatgatgcc cgtctttctg atcagcagat ggcgttactt 120
cagtaccaa gagagaatat ccattatctg agtgaggagg ttctccgctt gcaagaatgc 180
ttaagcaaat accagagaac tgctggaacc actcctcagg ttgatcttgc ccactcttta 240
gcaactcgtg atcaagaact ccgagcactc actgctgaga tgaatcaagt gcactccgaa 300
cttcaacatg cccgtgggtt gatcgatgaa aaggattcag agctccagcg tatccgtctg 360
agcaacaacc agtatgttga agaaaacgat aggctcagag ctattct 407

<210> 54905
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-E3

<400> 54905

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ggaaacaaag aacaggagaa gaggcagaaa gaaattgtta aaggcgaccc atctataaaa 120
aaaatgagcc gtagagaaag aaggaaggct tctcagattg agcgggaaaa ggagcgggag 180
gcagcacgtt ctgttggaag ggtatcttat cgtgatcctt ataggggaaca aaggagaagc 240
ccatcatatg aagcatattc aaggggcaga agatcaagat cgagatcaag atctcgttca 300
ccatcccatt ctaggcgtca tggccgtggg atacatgctg aaagcaatta ttggagcaag 360
caaaaggctc ctagggttga atatattact tgaattggag ggtccgatga taccagtg 418

<210> 54906
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C4

<400> 54906

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ttgatgatct cgacgagatg atatttggca agaaaggagg tagcagctcc caggatccga 180
aaaagccaga tccgaagaag gatgacctga tcagctttta attacctttc cataatcgca 240
accagtactt gctattttcc tgggtgctgta cccactcggg agattgaaga ttcttattcg 300
catacgattc ataccggttt gttcagttaa gtcgctacac tttggcaatc ttgtttcatg 360
gctgggtccc atgaccatga at 382

<210> 54907
<211> 337
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-C6

<400> 54907

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ggccgagctg accaagctca ccaagtctca agccgactac atcagcgtgc cgatcgaggg 120
tccctacaag cctgcccact accggtacta agcacacggc ttgcagctca ctcggggccc 180
tgtgtgctat gaagtctgct aactggcct gtcagttatc ttttgcattc atatgcatta 240
tcatatacgc agtcgcgtag cagggtttct tatggttatc gcttgagctg angggggagg 300
gaaagagctt gttgcttttg ctgaagaata atgggtgt 337

<210> 54908

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C7

<400> 54908

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gcttgtagta ttgtggcctt cccctttttt tcccttaaata gctacagtta ttcaggaagt 120
gggtgtagtcc gtgtactgtc gcaagtctag cagagattgc agagttttgt tgaaccgttg 180
tgctgttgta tttatgagag ataactgata accgaaggt 219

<210> 54909

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C8

<400> 54909

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cggattaccc tttcaagcca ccaaagggtgt ctttccgcac caaggatttc caccgaaca 120
tcaacagcaa cggcagcatt tgccttgaca ttcttaagga acagtggagt cctgctttaa 180
ctatctcaaa ggttctctg tcaatctgct cactgctcac ggacccaaac cctgatgac 240
ctcttgctcc tgagattgct cacatgtaca agaccgacag ggccaagtat gagtccaccg 300

cacgctcctg gacacagaag tatgccatgg gctagaagca aggctaaaag ctggccaaac 360
 tgggtgaatgt gccggacccc aaatcggttat cacctaaata accagtcaag tcgcaagtat 420
 gaatggact 429

<210> 54910
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C9

<400> 54910

aaaaaaaaata taaaacaaaa aaaaatataa aaaaaaaaaa aaaaaaaaaa aaaaaaagca 60
 agcgtaaaaa caaaaacaat accacatcca accactttta taaaccaacc tataatccca 120
 ttctaata 127

<210> 54911
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-D1

<400> 54911

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 acgccgacaa ggacaactac ctcaactacc acgagcgggt gctgaagctg gtgaagcttg 120
 gcggcctcat cggctacgac aacacgctgt ggaacgggtc cgtcgtgctc cccgacgacg 180
 cgcccatgcg caagtacatc cgcttctacc gcgacttcgt gctcgtcttc aacaaggcgc 240
 tcgccgccga cgaccgcgtc gagatctgcc agctccccgt cggcgacggc gtcaccctct 300
 gccgccgcgt caagtgaaaa catgccctgg cctggcctgc cccaccaccg ncaccgacgg 360
 cgccgncggc cgcattctca ttccaatcat aatagacgac ccgcagcatt aatta 415

<210> 54912
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-D10

<400> 54912

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gaagtacatc gacagtatcc tggagagcgc gtgcaagatg gtcaccgaac agttcgcttc 120
aagtggcttc agcatctctg accctgatct cccggagata tcccctggag gggtggtcat 180
gtgtggcggc cccacggaca cgttgagctc gtcgggtgtc aaccagcttt ccgtcagctc 240
catcggctcg cacagtccag gaggcaaacc ttccccttcc ccatcaggca tggaatgtcc 300
gccgctgctc ctccacaagt cgcattgagct caagcggagg tcctcttgaa ctgacaaatc 360
ggcgaagcgc ggtgatggct gtctttgcta gtgatgtcng atatgatggc ggtgacaagg 420
gaa 423

<210> 54913

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D11

<400> 54913

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tgcgccgctc catttgatcg aattcccgat ggcgcccaag gccgagaaga agcccgcgga 120
gaagaagccg acggaggaga aggccgagaa gaagcccagg gcggagaagc gcgtgccggg 180
caaggagggc ggcgagaaga aggggaagaa gaaggccaag aagagcgtcg agacgtacaa 240
gatctacatc ttcaaggtgc tcaagcaggt gcacccggac attggtatct cgtccaaggc 300
catgtccatc atgaactcct tcatcaacga ca 332

<210> 54914

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D12

<400> 54914

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gaaatgccag gatatgagcg catgttcaca gacttcttac taagtctcgc acaaagcaag 120
 tacaaaaggt acttaagcgg gacatgaggt gcaaggaagt ttgtgaagac catgctactg 180
 acgagatggc atataacggg ggcaggtatg ctccccacc gcgccaatgt acatttgctg 240
 gagacataag cataagcggg aggcttgagg aagttggcaa gtctcagtgt gtgtgttcaa 300
 aatcgggtggc acatgctgga ctggagtagg aaataaccaa agaaacgctt ggatgcgctg 360
 tactcatgtt gtaaaatgtt taactgaatg aacaccttcc tcgtgatggc tccctccatc 420
 gtaatttggc aaccatgaga attaattctt gagctttgt 459

<210> 54915
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-D6

<400> 54915
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 aaaaaaaagg cgcgccgttc aaaagaatcc aaattaactt ccccttcctt tcaacctaat 180
 aaccttttta taaccccccc taaatcaaat tcaactgccc ttttttaaca actccttaac 240
 tgaaaaaacc ctgcctttac caaactaaat ccctttgcac caaatccctt tttcc 295

<210> 54916
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D7

<400> 54916
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 taaggcggcc cgcaagtctg cccctgcgac cggcggagtt aagaagcccc accgcttccg 180
 ccccggtacc gtcgcgctcc gggagatccg caagtaccag aagagcacgg agctgctgat 240
 ccgcaagctg ccgttccagc gcctggtgcg ggagatcgcg caggacttca agaccgacct 300

acgcttccag agctccgctg tctccgctg gcaggaggcg gctgaggcct accttgtcgg 360
tctcttcgag gacaccaacc tctgcgccat ccacgccaaag cgcg 404

<210> 54917
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D8

<400> 54917

aaaaaaaaa aaaaaaaaaa aaatttaaatt ttttcaaaca atataaaaaa aaccaggaaa 60
aggtacaatt aaatactaac aaataacccc tcctatagtt ttacataaat tcaaatttac 120
tgcccccttc ttttccacct tttatttctt ttaaaatccc tccctaaatc caacttaa 178

<210> 54918
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D9

<400> 54918

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ggatcactcc aactatgata gtagtgtata gctacacatt t 101

<210> 54919
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-E10

<400> 54919

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actggtgggt gtgtttctgt aactggtgaa tgatcaagtt ggaagctttt agtctatctt 120
agatatatca gtggatagtg ttttttgtat tttcgttttc ttttccaatg tgtgttggtt 180
cttgtggatt atcctttttt tctaattctaa tacaatgaag aggcattgtct tttgaagctt 240
c 241

<210> 54920
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-E11

 <400> 54920

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 tttttaaaaa aaaaaaaaaa aactaaaaaa aaaaaaaaaat aaaaaataa aaataatata 120
 taaaaaaata aaaaaaata aaaaaataa aaaaatacaa aaaataaaaa aaaaatatat 180
 taaaaactaa aaaattatac tttttaaata aatataatac agtgacaccc ctttaaaaaa 240
 ataaaatttt aaata 255

<210> 54921
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-E12

 <400> 54921

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 ggagagaaga cactttctga cccgcttgag gccagacgcg ccgagagcaa cgcgagccgc 120
 gagaggaaga tcgctaggag ggacgatagg ttggcccaga gtccacgaga aataacacca 180
 cctgtctcat ccacagcttc agctactggg gcacctacta aagcacgaa gtgaagtatt 240
 gaaataaagc tgtagctttc tagtccagta ctgcactctc ttctataagc tctagtctaa 300
 tcttgagcgc cctgaactag cttgctgaca tataacttag tgtattgata aatgcgacta 360
 tcacatctgg attattctgc tggattttct ggtggat 397

<210> 54922
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-E2

<400> 54922

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cgctcgctgc cggagcccggt ggagttcgcc ggagctacgc catccgccgt ccgtagtcaa 120

gcccttgctc ttctccatcc ggtcgaaacc cgtcgatcca tccccgtcac acgcacggac 180

ccaaggttga agacgaccca attattttgt gtattttata aaatactttt tgatgcaatt 240

catgagttgt atattttgtt tgttgtaata tgaacacgtg tgattcgcaa ttcnnaana 299

<210> 54923

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-A8

<400> 54923

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gttttacaag ggagagcaaa gtctttaaat ctgccaaact acataaccat agacgctgga 120

agaacacaga ttgctccaaa ttcaaggaca gtcattggta ttctggggcc agctgatatg 180

gttgatgatg ttactggcgg tctgaagctt ttgtagaaaa ccaccttgct agcattttca 240

acttgggtct tcatagagca gtgctgggac tttgcaggcc acagtgggtct ctgcacttgt 300

actgatgtgc ggcagaagaa tgaaccttgg ccccgttggt tgacctgagt ttcttgtcca 360

tgaatttatt tggaaggaga gcttgcattc ttttt 395

<210> 54924

<211> 157

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-A9

<400> 54924

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atnttttgta ctcaacgaac tatacaatac attccagcat tcacctgatt tggagaagct 120

cactttgggc cgntgcaagt tctcaaaaga tcccaag 157

<210> 54925
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-B1

 <400> 54925

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 gccgccgaga agaaggacag ccttctcgcc aagctgcacc gcaccagctc cagttccagc 120
 tcgtcgagcg acgacgagga agaggaggtg atcggtagga acgacaagaa gatgaagaac 180
 tagctgaaaa gaggatgaag aactagctca gcatgcggtg tcgagttggt ataacgggtc 240
 tctttttggt tggttcgttt tttagggaaa caaaaacatt tattactgta gtatcagaaa 300
 ccgtaagagt aataaatttg ccaggatttt ttcttcttaa 340

<210> 54926
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-B10

 <400> 54926

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 atgtgctcca tcgaatccta ccgctgcaaa gactgattct gtggaccgta gtagatcata 120
 cataggaatt caacagctag tatgttggtg tgggatctat atgaggatc aaaccttaac 180
 tacaccctct acaaatcaat atttcttgat tttagcatca taaaatgaat gtatttgccg 240
 tatttatata ccgacgtgac ttgaaaaaac atgtatgtac acaatttaaa tgatt 295

<210> 54927
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-B11

 <400> 54927

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 tgacagtgcc caagttcggt ccacgcctta caaagaaga aactcgggtg tttgaatctg 120

ccagagaatc gatgactggt ttcaagaaat ggcgagcagg tgggatgaga ctgcaaaaagg 180
 cttccattct tggccggaag aggaagacaa agctgcctga atgagtttta aggtgatgtg 240
 cgctgctttg atttgctagc accgtgagca aagagaaaag tgaatggcag attaaatctg 300
 gatgtactat gatctgctgt acattgtgca cttgtgtaca gcagctctga tcaagccgtc 360
 cttttagtaga aaatgaacac cgtcttaaata catgatatca tgtttggagc 410

<210> 54928

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B2

<400> 54928

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 gtcattatca gccgatgaca tcgtagcgaa tgcccaactg ggacctgccc cagcaaatgt 120
 tcttgctccc atctacgatg aactgtgatt cgtttgtcct ctgtattgtt aaggttagtt 180
 ttgcatgtgg ctattgggat tttgtccagt gtgtgggtgg catgtaccga tctgcgattc 240
 attaaaataa tttcaaatga aaaatagtta actaacaaaa aaaacagaaa aatcaaaaac 300
 cgaaagaaaa ataaatttgc cagagattat ttctttctta aagaaagaat aaaaaaatg 360
 a 361

<210> 54929

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B3

<400> 54929

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 gggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt 120
 cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg 180
 caaggagctg gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgtgg 240
 aggcggcggc ggccggcggt acggtggtgg ccgtggaggc ggccggctacg gcggtggcgg 300

gcgccgtgat ggcgggcgcg gctaccgcgg tggcgggcggc taccgtggtg gcggcggtg 360
ctacagtggg ggtggcgcg gctaccgccg tggcaaccgt ggc 403

<210> 54930
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B5

<400> 54930

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tggacatggg gcctttggag gctatggtca cgggtggttac ggccacgggt atggtggcca 120
cggcaagttc aagcatggtc acggccacca cggcaagttc aagcacgggc acggcaagtt 180
caagcatggc aagcacgggc acggcatggt cggcgggcggc aagttcaaga agtgggaagtg 240
atgtgccctc catggttgat cgtagctgaa ctcaggcttc caggacatgt gttgccagta 300
ataccttttc agcgttactc atccttcata tgtatttcca gtaatccagc ttgtggcgag 360
tgacataatg ctaataagtg acataaataa ccattgctga tatgctgtat atgttgggtct 420
ttgggatgga gcgctctgaa gattatattc attggcaat 459

<210> 54931
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B6

<400> 54931

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gaagggcctc accatcgtga acagcgccgg gccagggaag gggcaggccg tggcgctgcg 120
cgtcggcggc gacctctccg tgggttacca gtgcgccatc caggcgtacc aggacacgct 180
ctacgtgcac tccggccgcc agttctacgc cgacgacgac atcgccggca cgggtggactt 240
catcttcggc aacgcgcggc tgggtgtcca gagctgcgac atccaggccc ggaggccgag 300
ccctcggcag aaggacacgg tgacggcgc 329

<210> 54932
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-B7

 <400> 54932

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 gacccacggt gccacccaac tcatgcaggc tgagaatcac tcttagtgct tcccatcct 120
 cggacgacat caaaaggctg gttgatgcac tcacaccatg gctccctgtc aaatatggta 180
 atgggagcta tgctacagct tcaaaactct aacccatcgg aggagagtct ggtatcctgc 240
 ggaaagagggc ggcatgctag tgggtggttg acgcgtacgc atttatatat tctgtggcgt 300
 gacgcctacg tccttcccca tttataagca aatattactg ttttgttaga tatcaatgtt 360
 gaaataggct tattattatt attattagc 389

<210> 54933
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-B8

 <400> 54933

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 gcgtgcgcgc ctctggtgcc actgccacgg caacagcacg gcatggcgcc ggcataggtc 120
 gctaggaaaa acctgctttt gtgttcgggt tcacgtcgtg tcctacgtgg cgcggcgggc 180
 cccgcctagt aaaggagcgt aggagcgtcg ttttgtgttg tggtcgaata aataatgtgt 240
 ctgtgtgccc atcccgtgtc gggttagtgg gccactgtc ggtgctgatg tggcctgcct 300
 ttacagcaca tcggtggggc tgggccgtag agctcctgtg tcgtttaaat atatgtgtac 360
 tctgtactgt accaactagt atgtgtttcg agtgtgtaag aagcatatct gtgtcccatc 420
 catctttcg 429

<210> 54934
 <211> 392
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-B9

<400> 54934

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gggcgcggca agggcggcaa ggggctgggc aagggcggcg ccaagcgcca ccgcaagggtg 120
ctgcgcgaca acatccaggg catcacgaag ccggcgatcc gtaggctggc caggagggggc 180
ggcgtcaagc gcattttctgg gctcatctac gaggagaccc gcggcgtgct caagatcttc 240
ctcgagaacg tcatccgcga cgccgtcacc tacaccgagc acgcccgcgc caagaccgtc 300
accgccatgg atgtcgtcta cgcgtcaag cgccagggcc gcacgctcta cggcttcngc 360
ggctaagccg cctccccctc tgatgctttg at 392

<210> 54935
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C10

<400> 54935

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ggggatgaaa tcagcattaa gcttcggccg aacagcactg gccgccaac tgtccagatg 120
gcgcgtgctc tactgtcagc tcaccattct cgtgagcgca tactgcgggtg ctccgggctgt 180
ggcactggat gggctgtgga cgatactact gacatgatca ctgagctctt ggcggaatac 240
aacactggtg gtgacctagg agacgcctgc agatgcatgc gtgatcttgt gatgcccttc 300
gtcaaccatg aggcggtgaa gatggcactg gtcat 335

<210> 54936
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C11

<400> 54936

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ggatttgctg atgataccac cggcaattgc agttgctatc tctaagactc ttactggatt 120
 gtattgtatg ctgtatggtg tgagattcgg tgaacaaaat tcgtatttgg cagttcgaat 180
 tt 182

<210> 54937

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-C12

<400> 54937

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 ggtgcatgaa tccaaattat tccgaattca agttccctca gataaaagcc catccatggc 120
 acaagctttt tggttaagcgc atgccacccg aggctgtcga tctcgtgtca aggctgctcc 180
 agtactcacc gaacctgcdc tgcactgctg tcgacgcctg tgcccatccg ttcttcgatg 240
 agctgcggga cccaaggct tgctgcccga acggacggcc aatgccaccg ttgttcgact 300
 tcacagcagc cgaactcgaa gggctccccg ccgagcttgt ccaccggatc gttcctgaac 360
 acatgaggaa ggaagtgaat tangtggacg gacgtacttg gggcaa 406

<210> 54938

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-A7

<400> 54938

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 tgggcatggc atcatatagc tcgtggtgag cgcggcatat aattaccact gtgtgactc 120
 aacatttaca ccacaacata ttgtgccttc ttgtcacttc catgtccatt gatttcatac 180
 acgtgatttg gttggcgtgg cctatactga agatgaaact aatgcaatgg ctgctgaaat 240
 tgaggtagtt gatggtccta atgatgacgg tgaaatgttc accgcctt ttaaactgag 300
 cgatcgctta ccacagtctt atgcaaacga gcaatcaacc cggtttgcta atggtggtgc 360

atacccttcg gaccttagtc ttatcacaaa tgcaaggcac aattgtc

407

<210> 54939

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H10

<400> 54939

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cttgtgtaac agaggaatcc aagtatttca tatcaaagtt taaaagtctt atcgagggtt 120

cgcggtatgg atgtatcctg tttcaaatga tttctcctaa tgtatgaatg aaaacggtta 180

atggatgccc cagtatgcat tgcttttc 208

<210> 54940

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H11

<400> 54940

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tgtgtttgtg taagctagca aacggttcca gaaagctttt gttaagattt tgatgacgct 120

aagaggattg atgctactat gctgtactca agattccatg ctgcattgcg atgctaaatt 180

aaagaacctc tgctacctta ctttaaaaaa aaaaaaactg aatgagggca agttgctatg 240

ccaaaaacgt aatcaataca acgcccggac tgtacttacc caggagaaga ctgacttcaa 300

ctagtgcaaa aactgaagca catggtgaga cggactgaga tacgcacact taattgccaa 360

cca 363

<210> 54941

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H12

<400> 54941

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ataaaaaaaaa aaaagataca ttggaaaaat aaaatagata ttatcatact aaattcaatc 120
caacataccc aaacattcaa actacttaac tatctatata ctcacgttac ttaactacaa 180
ttatcatttc atttcatata actttacact ttctaacctc tatttcttac acatcttaat 240
cgattatcct tacaacctct ttactccct taccatcttt cgcaatacgc cctttc 296

<210> 54942
<211> 282
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-042-Q1-K1-H2
<400> 54942

cggacgcgtg ggggtgctcca tgcttgacgt ttaaaaaaaaa aaaaaaaaaa gaaaaaaaaa 60
ggaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atcgcttttag atattaaata 180
cacaaaatth tatatgatgc taaattcata gtcttactta tcatttacca aaacataatt 240
atatagcatg agtagtaata ttaaaactat gtgaaaaatt aa 282

<210> 54943
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-042-Q1-K1-H4
<400> 54943

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gtagtaacca taagaaacat agacatgaag ttggtttgga agttgatgaa ggaaatgatg 120
tgtgccctgc tgtagcagac cctaattgga aacatgaaac tggagtaggt ggatcttttag 180
ggggagctgc agaattctgt atatgatagc tgctgtatca ttcagttggc tgtttgcaga 240
ttgattgatg atgatggaga atgctgaact ggtgtttatt atctcccttt ctgatttagg 300
agttttatth gcagggcatg aagatcttcg gagaactcga gtgctgttcg gagcgctcat 360
ctgatatatt aaaatgctta tgattccatg aagagttggt ggagcacatt tctgggatgt 420

<210> 54944
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-042-Q1-K1-H5

<400> 54944

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 gcctctggcg ttggaagcga aggggaccgg ggcattctgt ggctggtgtg tatcatcttc 120
 ctaccatcct aggacatcta attagtttga ttagtttctt ccccgttcta gtggactcgg 180
 ttgctgcttt tggctttcac cgaatcctct ccaaagggtg cgctggtgct actgttcctt 240
 atggtgatga ttttacttct gaccatgatt gttacagcgg taaggctgtc ttaggatctt 300
 ttaaccttta agcatggaga cgactntata tacatgtaag taaggatgaat aat 353

<210> 54945
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-H6

<400> 54945

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 gtagtaacca taagaaacat agacatgaag ttggtttgga agttgatgaa ggaaatgatg 120
 tgtgccctgc tgtagcagac cctaattgga aacatgaaac tggagtaggt ggatcttttag 180
 ggggagctgc agaactctgt atatgatagc tgctgtatca ttcagttggc tgtttgcaga 240
 ttgattgatg atgatggaga atgctgaact ggtgtttatt atctcccttt ctgatttagg 300
 agttttatatt gcagggcatg aagatcttcg gagaactcga gtgctgttcg gagcgctcat 360
 ctgatatatt aaaatgctta tgattccatg aagagtttgt ggagcacatt tctgggatgt 420

<210> 54946
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-A10

<400> 54946

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gtagacatg accgtctgtg gcacccattc tgcccggatc tttatggacc tttacaccaa 120
ctatgtgcct aaaaccggcc ataactttcg tgcgctgtgc acggccgaga aaggcgtggg 180
ttagtccggg aagccattcc attacaaggg atccaccttg caccgcgtta taccggagat 240
catgtgccac ggcaagaact tcacccgaag gaacaggacc ggcgacgaat ccatctactg 300
atagaagttc cccgacaaga agataatgcg caagcacacc g 341

<210> 54947

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-A11

<400> 54947

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ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaaag aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa tgggggaggg tgggaggtng taaaaaaaaa aaaaaaggtg 180
nntaatgggg gggggaatgg ttgaaatfff aaaaataaag aaaatgaaaa agagtttgaa 240
agtacataaa taaaaa 256

<210> 54948

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-A12

<400> 54948

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acgagagagt acaccgagaa gaccagaaaag aagctcctga aggaacgaaa tgcgattatt 180
gcagctcgga tggggcgatt gccgtctagg ccaaaccaga caggtgtagc cggaaacagg 240

ttaccacctg ggtatggcaa cctcctgta aggcctccaa acgcaatgcc tcggcccacc 300
agctgaagaa attccggatt coggacaccc agtgatctat accccattct tttagaagca 360
tcccccaag ac 372

<210> 54949
<211> 441
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-042-Q1-K1-H1
<400> 54949

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tatttgtggg tggtcctttt attcactaat ctttgtagcg tgatcttcaa gctccggcaa 120
acaatggacg ttccattttg gttttttgat gtaccctttt tttagatggt gttttgtaga 180
acaccatgca agcttcacac tcatagggcg aggcaccagg aaaaaaatct cgctggaacc 240
tattttgccg gctagtatta catgctgagt tgccgggtgaa actaaggcac cagttacatt 300
acgtaatgag cacacgaaga ctgtcgtaca atctgngagc aaggatcacc aaaccgtttt 360
gggtaaaaaa aaactgctat ccacggtaga ccggtgaaaa ccggcaaaat cgacaaggat 420
caccaaccgg gttttttttt g 441

<210> 54950
<211> 385
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-043-Q1-K1-A5
<400> 54950

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gaagtgctcg caggagccgg gcaaccctac caagtcggct aaggccatgg gcagggatct 120
gagggtccac ttcaagaaca caagggagac agcctttgcg cttegcaagt tgtctttgac 180
caaggctaag cgataccttg aggatgttat tgctcacaag caggcaattc ccttcoggag 240
atacctgtgg ggtgttggtc gcaccgcgca agctaagtcg cgccactcca atgggcaggg 300
cccgtgccc gttaaatacag ccaggttcat cctggatttg ctgaagaatg ctgagagtaa 360

cgctgatgtg aaaagcttgg atgtg

385

<210> 54951

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-A6

<400> 54951

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ggcggcctgt gacatgcacc ggccgcctgt agcgtcacgg ctgaggacta tacatttgga 120

gctcatatct cggaagaaaag aggagcgggtg aggtccagcc ccccggttgc 169

<210> 54952

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F4

<400> 54952

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aaggagacgc tgcagggtga gaagctatcc agctccaact gcacgggtggc catcgtaggc 120

aggaaggagg acggcaccat cgagccgttc gagatgattg gcgccgcaag gatacaggaa 180

cttatcgact ccatggaggt cgccgaggag gcgcccgcgg aggaggccag ctccatgcag 240

gaggaggaga ggggcccaga agatgctgct gctgctgcac ctgcacccat ggacatctag 300

aagccccata tgaaccacc aacctcacgc tgcattctga gttccccaaa gactagactg 360

cttctttaga aaattgttgc gagttgtgac tctttgctta cgaagaactt ctctatg 417

<210> 54953

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F5

<400> 54953

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tctaagggttg tgggtgtggca cttctatcta tgggtttttgt atttggacca cgaatgtttgt 180
aatttgtaaa ttttttttaa agatttatct                                     210

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<213>      Zea mays

<223>      Clone ID: LIB3088-042-Q1-K1-F6

<400>      54954
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<211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-F8

 <400> 54956

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 cgcgcacggc gacgccgggg gaggtgggag cgacggcggg agcttcccga gggggggcga 180
 cgccgccgac gacagcttgg tgagcctcac catgaactcc acgctcatgt accagggcca 240
 ggagatggcg gcggcgctgg ccggcgacgc caggaaaggg agcggcggcg gccgagggag 300
 tccgtccagc ttgtacttcc ccaatggctt cgcagttagta tttaatctcc ttcataagc 360
 aagagcaatg cattttcggt tctctctaca tatatccatc caaagatgat 410

<210> 54957
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-F9

 <400> 54957

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 agtttctctg ttttgcgagg tcacacaagc cttatttgta gtattacaac acagaagctg 180
 gctgacccaa aatccgacac tctgggggca gcaacttaac aaaatgtttg tacgaggggt 240
 tagagcccca cgggtgcttct ttggataagt atgtttatta ccttgtactt agctaggaac 300
 ctgcttatat gtaagatctt tgtgtacgac ggagaattgt cacagcggca taattctggt 360
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<210> 54958
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-G1

<400> 54958

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tggttgccag gacggtgtga cgaaggtgac atgcggcgcg gtccatggag atggggacgc 180

cggttgccag gatgacgccg cgaaattggc agcagaagcc atgggatcag atcgaaaccc 240

aagctagccg ataccagcta ctagaattat ctttgcttct gagagaatac atgtctgttt 300

ttcatcacia ctactagaat tcaagaaaat catcttgcta tagattggtg tctattatgt 360

acatggcact gaagttgcaa ctattcacia actgcacaga tgctgaaatt tctcttcttg 420

gttggtttat ttttctggac atgtttt 447

<210> 54959

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G10

<400> 54959

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tttatgaatg gtgcatctcg ctttggatct ggggaattac cagtagttta ggcctagtat 180

tagcgcgggt tttgtcgtgc tgggtgtagc ctggttggtg tggtagcgtt ttgcttggtt 240

gttttggaat tggaagtggg ggtaaggctg gcttgacagat taacggaggt aggccgcctt 300

ttatcaccgc ccaattaagc atttgtgggg tctcatggtg atggcctctt tcagatgaga 360

tgttttgcgt gttaccaag tgtgttggtt gtaatgagcc ctattaagtt tgtgctggaa 420

cttcagtatg catagacact gtctat 446

<210> 54960

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G11

<400> 54960

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 gatatatata caaatgattc agatcttgtg gctgtgctaa tgcatactgg ctattgctcg 180
 cctacgtgct gccctgcccc atctgccatc caagagcttg atgcaactgt tcaagttcta 240
 ccaccacaag agagttatac ttcaacattg aggaacaacg tacgctcacg tgcttggggg 300
 gctgagattg gttgtagctt ccgcatagaa cgctgatgca tagttaagaa aggtgggtggc 360
 accattgac ttgaaccacg ccttatgcac acattaactg tggagcctac acttgctcca 420
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<210> 54961

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G12

<400> 54961

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 tcttggtggc atgggtggta tgggtgggtc tgggtggcatg ggcggtatgg gaatggatga 180
 tttcgaagat gagagtgatg atgaagaaga agtgtcgaaa cctcaagctg cggacaaggc 240
 tgttgaggct gaggagacgg agtcagcggg aaccaagatt gaggcggctc agagcagttg 300
 aagatgctta tgatctaagc tagattgtat cctcatgtta attctgctga atcggaggac 360
 aaaccttaca tttatgggtg tggcaagtcc cagtggcgtg ccatgaaaat ttacgggtccg 420
 tctgttaact gggatttcca gtgtcg 446

<210> 54962

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G3

<400> 54962

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tgctgtatct gtctatcatc atatgaagat ggagctgagt tatctgctct tccctgcaat 180
catcacttgc actggccttg tattacaaaa tggctgcgca tgaatgcgac gtgtccactc 240
tgcaggtata acattctcaa aggcaagtac agtgcacgac caacttattc tgacataact 300
ctcgtaaca gcttcctttc aagtggcggt ctcaaagcaa tgctgtattc acagctgcgt 360
tattaaatga cagtgatctg cgtttgtatg attaggatgt gctgatcacc tgtcgatgga 420
tgaaacctta ttacaat 438

<210> 54963
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G4

<400> 54963

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tatgttacta ctctatatcc cacacgtgaa cgcaatatgt caaaagctgt atagccactg 180
tatatgctac gaacgagagc aactgtacta agtcttagag ctgcatcgat aagtccctgaa 240
tactgatatt gatgatgata catctaatac tgtattggtc acaactccta cctagccttg 300
tggccacagc ttctccggga ct 322

<210> 54964
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-042-Q1-K1-G5

<400> 54964

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tcgatgagga caattctcac gacgccagag ctgaaatacc tgctatgaag gattactcct 180
atcagagcga gacctaggac gtcaactaag ctgcacacca ctcacgagta tacctctaga 240

catatgacta ccgaaatctt gactactggt tgaggactca ctcacaacaa cttgcttcct 300
gcacaaacac tcaatgagtt ccggaggaat cacatatgat acattgctat acagattggt 360
cttggttatct ggaatcctac tagtatagta catgttctac atgtcngttt tgcctgaaaa 420
aaaaaatnan annt 434

<210> 54965
<211> 296
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-042-Q1-K1-G6
<400> 54965

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gcacagcctg gcaagcacag gccacgcaac ctccgcagct gcggaggtct actcgtctggc 120
ttccaagact acgtgcttcc agtggctgct aatgtttgtg atgacctgca tgtttgtaat 180
ggtgggttctg ctgataaggg tcacttgaat gatgaggctg tagcaggcac tcaaatacgta 240
ctcacccttg tcattgtttc atgggaattc tttgtggtca ggtcatggta tttttc 296

<210> 54966
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-042-Q1-K1-G7
<400> 54966

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gctctccgtc gtcgccaccg cctccagatc tcatcagcat ctgagtaacc ggaatcgaaa 180
acgttacogt tctcgcgaaa aatccccgct tcagtgtagc aagcttaggt cgtaatttta 240
ggtttgcaat aattaagttt gtttggcctc ctgtgctgta catatccgag tttgtttgtt 300
ggctgggttg ttgtttccag tctgtcatgt ttcatttgct ggtgccgtgg gggaggagtc 360
tgtagcgaag tgag 374

<210> 54967
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G8

<400> 54967

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agatcacttc ccttgcacca agcagcatga agatcaaggt cgttgcaccg cctgagagga  180
agtacagtgt ctggatagga gggtcgatcc tagcctcgct cagcactttc caacagatgt  240
ggatatcgaa ggaggagtac gacgagtctg gcccggcaat tggtcaccgg aagtgtttct  300
agggtttcac aagttcctcg tcgttaccta gtctcaaatt atgtcccctc catttctcga  360
gatatgtgtg gcagatttgc atgatacgtt tggttggttc catcggacct gaagtcttct  420
tggggatagg gctcccc                                     437
  
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<210> 54968
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F3

<400> 54968

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gtttgttgtg actcacttgg ataacaggca gctgctgac aaatcaaadc cgggcgaagt  120
tgtgaagcct gattctttca aggcgatcaa cgacgaaggc atgcccattgt accagaggcc  180
gttcatgaag ggcaagctgt acatccactt ctcggtggag ttcccggact cgctgagccc  240
ggagcagtgc aaggccctgg aggctgtgct cccgcccagg ccggtgtcgc agtacaccga  300
catggagctg gacgagtgcg aggagacgat gccctatgac gtgaacatcg aagcggagat  360
gcggaagcgg caacagcagc accaggaggc ctacgacgag gatgaggaca               410
  
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<210> 54969
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-D6

<400> 54969

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aaaaaaaaaa aaaaaaaaaa aataaaaaaa aatgggagaa ctttttaaag tttacaattt 180
taatattcaa taattcaa atattaactt ttttaatttta aatccaattt taaatcaaaa 240
gcccaaattt ttaaa 255

<210> 54970

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-D8

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ggctatgtgg atggcatagt catctttgag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa caacattaaa atgaacaaaa 240
aaagaag 247

<210> 54971

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E1

<400> 54971

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aagaaggcgc tggactgggc catcgacaac ctgctccacc acggggacac cctcgtcgtc 180
gtccacgtcc tgcaccacgg cgcggaggag accaagcaca cgctttgggc caagtccgga 240
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cgccccgacg ccgaggtgct cgacgcgatc gacacggcag cgcgccagaa gcagctgaag 360
 gtggtggcga agctctactg gggcgacgcc agggagaagc tctgcgacgc cgtcgaggac 420
 ctcaagatcg 430

<210> 54972
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-E10
 <400> 54972

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 gatacatact gtgctgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa cataaaaaaga aaaaacaaga 240
 accaaaaaaa caaaaaaaat tattaaaaac aaagctgacg atacaacgac tgagggctgt 300
 gagaatcgac caggatttta aagaacgacc tttagttac 339

<210> 54973
 <211> 191
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-E11
 <400> 54973

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 gtaactgtgt agctataaca attattgtct aacgttgtcc ttgttactcc acccgtttgt 120
 gttggattgc catcgaccat catatgaaaa cttatttttt ttccaatccc ctccaatcca 180
 tgtgggatga g 191

<210> 54974
 <211> 261
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-E2

<400> 54974

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aaaaaaaaaa aaaatcataa ttataatata gagaaaacta aataaaaaaaaa acttgaccga 180
aaaattacaa cgtaattact ggaaaaaccc taactttccc aaacttaata caacttgcag 240
tacataactca attttatagc t 261

<210> 54975

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E3

<400> 54975

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tcaagaacgc tatggcggct atcacgcaa gcttgcataa gagcaaatgg gactagcttg 180
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acaacacacg gggtcacacc atgctcccat tgatgcgtcc tcgttgggct aggcattaca 360
acatcgacag aatcagaatg taaaggtata cttctggcaa cgggctatac agccaatgag 420
ggctagtttg aaacac 436

<210> 54976

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E5

<400> 54976

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cactgacaat accatcaggt acaacgcaa gcgcaggcac tggcgccgca ccaagctcgg 180

cttctgagcg tccggattgg ccggctgctg cgtcgggaagg ctaggggtcta agagctatct 240
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aagattctga tgagtgggtga cgttaagaga aaattggcag tactgtgttg taccccaaga 360
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<210> 54977
<211> 438
<212> DNA
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<223> Clone ID: LIB3088-042-Q1-K1-E6
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caatgctatt atcttggagg cctgggtgcat ttggcgcaa agaaatcgta cggtttttga 180
aggagatttg ccggctgtta gcaagggtgca gcaaagtttt ctagaagagc taacatgttt 240
ggctcttgact ggggctcatc accttagcat tttagggata attgataccc ttagagcggg 300
cggattgggc tctcttgatc atatgtaatt tttgtttcag tttcgatgtg gtgtgggtga 360
tgatcttgct taacaggata ctcatcttgt aagactttct tttctctctc taaatataaa 420
taccggacgc gttcgaag 438

<210> 54978
<211> 403
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-042-Q1-K1-E7
<400> 54978

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acctaacatg gtcgagtcta aggtcgctga cgatgggtgtt gttgttcccc ttggcgaacc 180
caaacaggaa ccttcacaaa ggggtggcct gctttataat gactacatag tgtacaacgt 240

agaccagata agaatgcggt atgtcttaca tgtaaacttc aatttcaaga gacggtagat 300
 gttgcaaaga gctgaaactg ttgctgagat cttagcagaa catatgtgga cttatagcac 360
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<210> 54979

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E8

<400> 54979

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 catcgagaat tggtttttca tttgtgatta tactgacgga atctatcaaa gtgctcaaga 180
 tgctgctagt agaccaaggt gttgcaggac atttctttgt catgatttgg gatcctgggtg 240
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 cagcccgaca tctgaaccat gagccactgt cactgtctca accaggaagc tggaccaaga 360
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<210> 54980

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E9

<400> 54980

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 atcttgctta agttcaatcc gtcccccgag gaagcctgac ggcagatgaa ctcccaatct 180
 gtaactcaac aacagaatag atctggactt tgtttgacgc tttcacattg cgtagagagc 240
 tatgagatcg aatttgtcat tcctcggatc atttgaata tgatgtgaaa aatgcaatct 300
 caagtgctgg tctttggtga taaatcaatg tacctcagtt atagatgaat aggccatgta 360
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<210> 54981
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F1

<400> 54981

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gttgacagtt gtcatagtag tgctgctcta cttgatcatt tctgctttct gtggaggcct 180
taccttgtca tcatgcagat catgagtaac acaccagatg gctttgcccc tcccttaaat 240
ggagggtaga acaccatgga atgatgcctg ctgtgttgag caccggagct ttcggaggc 299

<210> 54982
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F10

<400> 54982

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gccgggcgag acaagcagta ctggaaatcg atttcggatc tcatcccaca tgaaatagcc 180
accatcgaga agcgggggaa gaaagacaag gacaagaagc catccatcac agttgtccag 240
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gcagccccag caaa 434

<210> 54983
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F12

<400> 54983

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gacctgagcg accgctacca caccactgt gacccaaggc tgaacgcctc ccagtccttg 180

gagctcgctt tcatcattgc agagaggctc aggaagagga ggatgcggtc ggggctcaac 240

aacagcttgc ctctgccacc actggctttc taagtagccg aagctgaaca gagaaggtag 300

agggatagtt gcggcgactc gaaagattac gcatgtttat ttgttgatgc ttggtgtgga 360

agactggtgg gtgctcttgg cacaagttac atgctgggga gctataggag ggtacctgtt 420

gcgttgtgga agacagtagc tagta 445

<210> 54984

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F2

<400> 54984

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gttggaacca aaggagagga acaacaccga atacaagctg gacacctaca ctacgggtcta 120

ccgcaggctg tgtgggaaag atgtgggtctt tgagtaccct atggccgaaa atgcataaat 180

atgacgcccc gatatcccca ttttatatttg ttgaatctgg atgtttcttt ggggtctcaa 240

ctagactgct ccgtatgtac ttcaaaaacc atagttttga tgccaaagtt gttgcctagg 300

aatttggtac tcgggaattg gtagcggacg tgaacaatgt taagttttga gcatttaaata 360

ttacctttgt catgactaaa aaaaacccgc aatagtataa g 401

<210> 54985

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B9

<400> 54985

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gcgcaagcga gctcgccacc aaagctgcga ggaagtcggc gccgacgacc ggcggtcgtga 120
agaagcccca caggtacagg tccggcaccg tggcattgcc cgagatccgg acgtaccaca 180
agagcaccga gctggtcata cggaagttga ccttgcagcg cctggtcctt gagatcgctc 240
aggacttcaa gacggatctt cgggtccaga gccacgccgc tctggccctc caggaagacg 300
ccgaggccta catcgctcgg gtgtttctagg acaccaacct ctgcaccata cacacctagc 360
gcgtgaccat catgccaac gacatt 386

<210> 54986

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C1

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acaaaaaaaa cttaaataa aaaaaaaaaa atataaaaaa aaaaaaaaaa aaatatcaaa 120
atctaaaact aaaaaatata cgtataaacc ttaaaaaggc caaatttaaa tagtcaaatt 180
tcatatgtta actacaataa tcatgctaataac 213

<210> 54987

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C10

<400> 54987

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cctagaaagg cttcacaggc cgctatatac caatgtattg taggaaaaaa catcttgggt 180
taccaagct aaaccacctt gaacatcatg gcacctgtct ccaacataga caatatgaga 240
gaagaccgca tagatcgctg ttctgaacag gggcatcaac ctacaatgag cgaaggggac 300
ac 302

<210> 54988

<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C11

<400> 54988

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agttacaatg tc 72

<210> 54989
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C3

<400> 54989

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actggccgct gctggcggat tcttggctat cttctttgct tgcttggttg cagtgtatat 180
tggagcagta ggagttgcta tctttgccat ttctgccatt gtcattctcat cagttgttgg 240
agttatgatt actactgggtt gggttgggtt cttctggatg atctgggttca ccgcaaggaa 300
gagcatggac ctgacgaagc attccatcag catgacgagc tcggcagtc aatcctattc 360
cgcgccccgc caagtgaagc ataagcatgt cgactgaggc tagttgggtg cgtcttgctg 420
cctcgggtcg atctgtgtg 439

<210> 54990
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C4

<400> 54990

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tatgtgcctt tgtaagact ggaatgtggg aatctttgag tgattcggca tgtaactaac 180

tggaggccac gagatagttt gacgcaaggc ctattacccc cttggaggag agtgacgatc 240
 aaaaacaaat aaactaaca taaacaaaaa ta 272

<210> 54991
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-C5
 <400> 54991

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 aagacagcct tgcctctcag gttctgaagc tgagaagatc cgttgaaacc cgggaaaggg 180
 cgaaggcaaa tgggtcaaatt tcagatgtga aggacaatca gcatgctaata aacaagcgca 240
 ccaagcaciaa taccggctcc actgggagca ttgctgcgct gccaggcacc aacagacaag 300
 gcgaagacgg tgactgcaat ggtcctgaca tgaggaactc cactgaccag tcagcaaagg 360
 agctggcctc actgaaggag aagaacaggg cgatcg 396

<210> 54992
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-C6
 <400> 54992

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 cacaaaagag aacactgaag caagagcttc aacatgttcc acctcccaag agcttcaaca 180
 tgttctgctc cgggtggctca agaggcaagc gtcgcacccg ccccgatttt gattccaagg 240
 acgaatacaa cattccccgc ggactagcga tcaccgtacc tectgtgcct cgaggtggag 300
 ccgcccgtct gcgactcgcg cagaccacat ctaacgcgtg tggcgctcgt ccggctcacg 360
 ggcaagcacc ctttcaactt aaaaacctcg gtgtcctggc tgatggggca cga 413

<210> 54993

<211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-C7

 <400> 54993

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 ggagaaggcg gagaagacga ccgcaggtaa gaagcccaag tccgagaagc gcctgccccg 180
 ctccaagtcc tccggcaagg agggcgccga gaagaaggg aagaagaagg ccaagaagag 240
 cgtggagacc tacaaaatct acatcttcaa ggtcctgaag caggtgcacc ccgacatcgg 300
 catctcctgc aaggccatgt ccatcatgaa ctcttcatc aacgacatct tcgagaagct 360
 cgccggcgag gccgctaagc tcgcccggta caacaagaag cccaccatga ccttccgcga 420
 gatcc 425

<210> 54994
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-D1

 <400> 54994

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 atttgaagca ggctcagcag ggcaattcta tgcattggacg tttccgcct gacgtcttct 180
 aatgtctgcc atggctcaac agaataatta tgcattggacg ttcgttaata tttgatgctg 240
 tacagttgga ttttgaacta agcagtgatc aataaaaaaa atcgaggtag tacctattaa 300
 g 301

<210> 54995
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-D11

<400> 54995

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tcaccgacag ccagatccca ctgactgggc caaactcaat cattggcaga gctgttggtg 120

ttcacgctga tcctgatgat cttggaaagg gtgggcacga gctcagcaag agcactggaa 180

acgccggtgg ccgtgttgct tgtgggatca ttggactcca gggctgaaaa cgatcgccgg 240

acttgggggt gcctgagagg tccgtcttct gccgtcccca gcagacgagc ctgaacattc 300

ggagacatcg tgaaataaga gcgtcgctga tctgtgatca tcgtatttgt cattatgcac 360

ctgtagcaac cgatggactg aactgtgctg gattatgctg ttggatcacc tgagtatgtg 420

gtacatgtc 429

<210> 54996

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-D2

<400> 54996

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gaagggtggct tacaacggga ccttttcttg ccatttattg acaccttgaa agaaagatgc 120

atcgtgcatg ccattggatc tgcggtggac tatcgtcaac tgggttctgc tgaacaaggt 180

ttctattttg tcggaaaaca ttacagtacg cttctgaaac agaagctcca gtctttaatt 240

ggagatgaga aaccagccc acaaactgtt gaagtaatta tgggaaggaa attacagggt 300

cccctaggag caaatggttg tgcataattt ccttttgaag acctttgtga taaaccttta 360

ggtgcagcag attacttttg actctttaaa aaatttcaca ccctggcact tgatgggtatt 420

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<212> DNA

<213> Zea mays

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<400> 54997

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gatctgcgtc tgttcatatg cctgatgccg acttggtgctg tatgtagttg cttgaattca 120
gtcgtgtttt gctaccgtac ccaccccatg catcatctgt caccgcgacg caataatcat 180
agtaataaca agttcagaga ttgattcatt 210

<210> 54998
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-042-Q1-K1-D4
<400> 54998

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taaagagcct gcagatggaa ggcaggtacc tccgtgatgt atggtgacac atcaccccca 180
ttcagccata gctctagcgt gtggaagtaa agctggcttt gcgtgtacga catgcctaata 240
gccaaatgaa gcgtgccatt gtttagaaac tgaaatgttc agtcgatcag tgtaattctt 300
tgacatctaa ctattttatc attatatgga atgggaggaa ctgttgtaga tttgtagaac 360
tacaaaaaaaa ttgtgtatcc ctaacaagtt tgtagcaaag ggggtacatt attacagttt 420
gagatgaaga catcatgtat ac 442

<210> 54999
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-042-Q1-K1-B7
<400> 54999

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caatgtgggt gctagtgttg agactgcccc cgagaggggt accagctaca acaccatcgc 120
ctacaacgtt cgattgaaaa atgctctggc aaaccataag gactttcaca ttgacatatg 180
ccctcatata ctcacgatga acctcaataa ggatcaccat gactaataac gcctgaaatt 240
acacgtactt gtagaggtag aatatatgta tcaagagatt gaaatggtct ataacctgta 300

aatctatcac taagagcatc aatattagca cttattaaac cttattacta cogatgttac 360
 tacctaattt atatacttct ctaaaaatta tgcttaaaaa aatat 405

<210> 55000
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-A12
 <400> 55000

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 gcttcgacag tcttcataag cttgtatgga tccgcagtgt gactgcaatg gctagtttgt 180
 aagaacttaa tatgcctggg cttttgaact cttagattgt gcttgtattg ctcgtgcttg 240
 aggaccagaa aattaaactc ttggcgggtgt ggtactgttg tgatttgcaa gaataaaaat 300
 aattggttta aactaaatgt ctgattcgct atgtatgcac tttttgatgc g 351

<210> 55001
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-A2
 <400> 55001

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 ggcaaagagt ccggtgaacc agttccggag tatgactacc tgccatactt ctactcccga 180
 tcattcgacc tggcgtggca attctacggc gacaacgtgg gcgaaaccat cctgtttggc 240
 gacagtgacc ccaccttcag caagcccaag ttcggctcgt actggatcaa ggacggcaag 300
 gtcttggggc ctttcttggg gggcgggtca ccggacgaga ac 342

<210> 55002
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A3

<400> 55002

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ctgatataca ttgcttccgg tgaaatctat ggcgggtgaaa ggcgcctggc cgtgctcaag 180
gctgcgtacc ctaactagt aaggaaggag aagattttat ctcccgatga actgcggccg 240
ttccagaacc attcgaccca gatggcagcg ctggattaca tgggtctctt agcaagtgac 300
actttcattc ccagctacga cggaaatatg gcaagggttg tcgaaagcca ccgcaggtat 360
atggggtttcc gcaagaccat cgtcttggac agaaagaagc tcgtcgag 408

<210> 55003

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A4

<400> 55003

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tttccggcga tttggtagca aacgtgatgt aaagaaacta agagtgtgtt tggtttgagg 180
aatgaagtaa tccatcttct tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 300
aaatataata taaaaaata aaataaatat atttaaagaa gaattaaaat gaaaagtttt 360
ggggggg 366

<210> 55004

<211> 405

<212> DNA

<213> Zea mays

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<400> 55004

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catcagcagc tgcacgaaga tggggggcccg cgggctggag gcgttcggca agcactgcaa 180
gtccctggcg gggctgcggc gggatgatgca cccgatcgac ctggcggaca gggcgtgcca 240
gcacgacgag gcgcacgcca tcgcgtgcag catgccagc ctgcggcacc tggagatggg 300
gtacatgctg gtggcgacgg aggcgggtggc ggagatcctg gggcgggtgcc gcgagctcag 360
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<210> 55005

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-042-Q1-K1-A6

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cgagctccgc catgtcatga caaatcttgg tgagaagcta actgatgagg aggtggacga 180
gatgatccgt gaggtgatg tcgatggtga tggccagatc aactacgagg agtttgtcaa 240
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gcatattagt caagatgcaa ctttttattc catcgacttc tagtgaaaca ttctgctagt 360
tgtagttgct tgaaaaagca atgtaagtcc cggcttnggt cttccttcaa tgtggtttca 420
gaactggtgt ttcattgtg 438

<210> 55006

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B1

<400> 55006

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gtttcctgtt tgggtgcgtg acttgccgac tttctagctg cttctgggggt tttagacctg 120
gtaaggaaag aataaaaaa taatcggagt gcaatgctaa aaaaataaaa aataaaaaaa 180

aaaaaaacaa aaaaaactaa aaaaaaaaaa aaaaaattaa aaa

223

<210> 55007

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B10

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gcactgttgt tagtggttca tttgctttct tagattcgga tagtacagtt ggtggatcca 180
tgattgatgt ggatacatat accatgttgc catggcagcc tgtttatcac acattcactt 240
caactagaac attgcggcgc cctcacgggc gccctaccaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaataaaaa aaaaaaaata aataataaaa ataaataaaa aatataataa 360
tttacaattt aaattatttt taatt 385

<210> 55008

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B11

<400> 55008

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gtctttcttct tgggtgccta ccgtgtgctt tatatcctta actggattta ccgatacttc 180
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ttgcgtggc 429

<210> 55009
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-B3

 <400> 55009

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 acacatgcac ataaattcct ttacatttca tttatataac tcaacctgca ttatattatc 180
 attggttgca cgttttctat ataaattctg tgacattacc aacttacaat attgatttca 240
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<210> 55010
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-042-Q1-K1-B4

 <400> 55010

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 cgcgcatcat cccgcgccac gtgctcctgg cgatccgcaa cgacgaggag ctcggaagc 240
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 tgccaagaa ggcggcggag aaggcggcca gcgccggcag caaggagccc aagtccccca 360
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<210> 55011
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-A10

<400> 55011

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cttgtagcct gatttgggtg gggaggatgc ctgatatcca gctgggatgc cacactataa 240

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ttgtgttact tgatggactg ttaaacataa tcgagccctt tcaccgcttt gttggacgcg 360

acatgatgac cgacttgagt tatccctca agggcaacac aatcccattt tgggctgttc 420

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<210> 55012

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B6

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aacctgttta gaccaccata ccaatatcaa atataggctg ctgctgtat catgtccacg 240

gttacctacg cttgcatacg aacatatgct gttcttatac tgtcgtcaac atctgttttag 300

catgacaca 309

<210> 55013

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G4

<400> 55013

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tttccactca acatccttct aaccatccct caacaaataa tcacactacc cataactaacc 180
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<210> 55014
 <211> 181
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-041-Q1-K1-G5
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<210> 55015
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-041-Q1-K1-G9
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 gataaaaatg agtagaccat aattggccca gaaggcacat tactgtgagc cgatgagaga 120
 ctgacagata cacgtggccg gaatactacg aactcgatc tgggagggttc attgggaagc 180
 aatcccgatc ttatcagaca tggactattg ctggatttct gacctcaaaa atgttgctgg 240
 agaaccacaca gctggcttct attctgacct gtgatgatga ccttgagctg ctggaaggct 300
 gtgcttgctg cctgtccaag aagacgacaa agtgctcacg gcgagcggcc tagtcacatg 360
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 caacggaaaa tta 433

<210> 55016
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-041-Q1-K1-H11

<400> 55016

cgcgctcctg atccttatct ctgcgcgcgc tgcacgcggc cccgccggga ggccgatccg 60
gcccgcctcg tccatgttgt ggggccgcaa tatccgccgc ttcgtcgaca cggggcgccgg 120
cctcggatcc gaggccatca tggaactgga gactaaaagg atattgcttg agattttcaa 180
ggagcggcag cggaagagtg ccgaggctgg ttccatccca agtttttaca agaaacctga 240
agaaggatcc attagctcta gagttcaaag gttggccaag tacaggtttc taaagaaaca 300
atcagagctt ctgctgaatg ctgatgatct tgatgccatg tgggtttgtc tcagagaaaa 360
ttgtgttatt gatgatgcta ctggtgctga aaaggaaga ttcctttntg atgtatttta 420
caccacatca gctagttttg 440

<210> 55017
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-041-Q1-K1-H3

<400> 55017

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gccgatgtcc caagtgacn tgtcagtcgc atttatttcc tatgggactt cgggattgta 120
cccaatttnn tagaagtctt acnntcgaat ttctgtaagg gcctaaagaa tnccaatcag 180
aaatgtgttt atttgggttt taggtcccag aattatttag tgcannatct gatgcccggt 240
tgaatttnnc tgttttcctt ttttaaccac ccatgtaccc aatangaacc attttcggga 300
cccagtcatt atnnngttcc tngtatttct ctttttcggt g 341

<210> 55018
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-H4

<400> 55018

acgacagtgt ggaagtgcc aacgoggctt ctgtaaagga acctgatgct gttgctcagg 60
gaaatggtac cgttcagaaa cagagcattt ctactgaaag ccagggcaat gcacaaggca 120
agcaacagag aaggtgcaag gagggtgatg tactcgtgga ggacaagcta tacagagagc 180
actgcaagag tgggtggcac aaacacaact acacacgcca caagaatggg ctcccgcctc 240
tcagccaaga ggagtgtatg gtggagatgg aattggccga cttcaagaaa gaccttaaag 300
actacgattt ctgatgaaga tggttaacaa ggggtgcaca gggcatgaaa ttgttgccag 360
tcccttttta ttttaaatag gaagttaaga atgaggcaca tggtcgtttc 410

<210> 55019

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-041-Q1-K1-H7

<400> 55019

cccacgcgtc cgcggacgcg tgggaaactc caagaaattg ttctacaaaa gaatggagag 60
tgaggaagga gaaagccttg atggtgaact ctctagtaaa atcatacata aatgtggcgg 120
cataccattg gctatcattg ctatagctag tttgttggtt gaaagatcac gtgaggagtg 180
gtcagaagtg tacgacaaga ttggtcttgg gaatgaagac aatacagcaa agataatgtc 240
atacagctac tatgatctgc ctnccttatct caagccatgt ctactgcaac taagcatgta 300
tccagaagac tatctctttg acacaaaagt tgcgatatgg atgtggatag gtgaaggtct 360
agtccatctt gagaaagagg agggtagcct atttgagggt ggagaaagat acttcaagga 420
gctt 424

<210> 55020

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-H9

<400> 55020

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gattccactt ataaacgttt aaatcatata atgttggtta tataaaaaaa aaaaaaaaaa 120

aacaacacacac caaaattata ataaactaa aaaataaaaa aaaaaaaaat aaaaaaata 180
aaaaacacacac aaaaaacacac ataccacacac aaaaaaacat aaaaaacacac aacgggagac 240
cctttaaaag gatccatttt ctctacacct taatatgaaa tcaaacacatt tttttaggaa 300
ccaaattaaa ttatgtgaat gctttaaaac ttgatgccat gtaaacacct ttgatatacc 360
aatttaatac ccattatact aattcccctt 390

<210> 55021
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A1

<400> 55021
cacacgcgtt cgaggacgcg ttgggttattt ttttgagatt ttcattactg gggttaactga 60
gagatcaaag atgtggctaa ccacataagg tgtacaaaat gatgctttga atttagctac 120
ataccacaaa gataaaccta catgcctgta caaacattaa atgcccttgc ggacagctcc 180
ggcagcatgg agcccaagtg cccaagaag ggcaccaagt tccccaagaa ggcttacaaa 240
gtgggggactt catttgcact gagtgctgtc acatgctcgt gtctagatat gtggatcata 300
tgtgtttctga tct 313

<210> 55022
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G12

<400> 55022
tttcacccac gcgtcctccc acttttttga aaaaaaaaaa aaaaaagaga aaaaacacac 60
ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaat aaaaaaaaaa 120
aaaactaata aaaaaaacac aaaaaaata acacaacacc aaaaacacac aaatataaca 180
aaattccacc gtatacaaca caca 204

<210> 55023
<211> 329

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-D8

 <400> 55023

 cgtgggttct cctccttctt ccgtgtagct ctcggtttca gcgatgtcgg agactgatgc 60
 aattgtcaac aaggcggctg cgcaagcggc ggcgccaagc gccaccgcaa ggtgctgcgc 120
 gacaacatcc agggcatcac gaagccggcg atccgtaggc tggccaggat gggcggcgtc 180
 aagcgcattt ctgggtcat ctacgaagag acccgcggcg tgctcaagat cttcctccag 240
 aacgtcatcc gcgacgccgt cacctacacc caacacgcc gccccaagaa ccgtaccgcg 300
 atggatgtcg tctacccct taaaccca 329

<210> 55024
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-E1

 <400> 55024

 agccttctctg gtagctagac ttttacctat gctgagaaca tcatctggta cgactctgtt 60
 catttcaatg gttcacgacc catgactgaa gctgctcaaa gctccattct ggatgggtgta 120
 catcattacg agctccaatg ttgatgtcag tggcctctct ttctcgatct tctccatttt 180
 tactttacct tatctttctt ttttaatgaa ccacttcttg tgctcctgat ttcctttttt 240
 ttttctttgc cattactctt tttattccat tgtagttat ggtctcctaa atttaatcga 300
 tcttacaac tttctctttt cttttaaaat aattttaaat aa 342

<210> 55025
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-E4

 <400> 55025

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attaagacat gcccttnacc atcaccanta tctttccntt tgaatcantt ntaatgcatt 120
catcntcatt cttggctctt cctgatctat ctttcattaa ctatctatat tataatcatta 180
tcaatgttat tcaattattc tttttcaaaa aaaaaaaaaa aaatctgcct ctctatatatta 240
tccaacctta cttacgcctt cattccactt cat 273

<210> 55026
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-041-Q1-K1-F9
<400> 55026

aatccccggg cgcaccgacg tttacggaac aagttccaat attataacct ttaagcattc 60
aagacaacag tcacagcagc aggcattggt tcaaattaga aggcacgagg ccatggctag 120
gaaagcagct ggtgaggagc cactaccaga agaagatcca tccaatccta tatttaagcc 180
tattcctgag ccctcacgat tggaggggcta tctagtaact aatcagatct gcagttactg 240
caaccatata aacgggggtg ctggtcagaa tttcgacagg ctatacctga tgaaggcctt 300
gcatgatgat tagaagactg ggctgcgatg aatgctgtta gaataagctt gtgatactgc 360
tcaaaaatcgt aaattttgtg atgtaccttt acatgggcct gcctgttctt ctacttaatg 420

<210> 55027
<211> 101
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-041-Q1-K1-B9
<400> 55027

atcacccaac ctccatcgca aattcaaccc accctctatc gccacattaa gccagcatg 60
tctaattctt acacccatcc aaacctctac acttgccaca t 101

<210> 55028
<211> 112
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-041-Q1-K1-C3

<400> 55028
aatttcctaaa acgacccacg cgtaactaaa aaaaaataaa aaaacaaaaa aaaaaaat 60
aaatttataaa aaaaaaaaaa aaaaaaaaag aaaatgtaaa attttataaa ta 112

<210> 55029
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C4

<400> 55029
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ataccgaccc taccctccta tcacattata tccccaacgt attctacatt caccacatct 120
tcccttcct tctttccact aacgtcatca tctaaatcct tttatttacc cttacctaca 180
ttatatacct caactacaaa catcacttat actactaacc tt 222

<210> 55030
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C8

<400> 55030
attccctggg cgaccgcact catgctgata atatacatat actacactta taaaattttt 60
atatattata acaaattctc ccaaaagatt gattattaaa aagctctgcc ccatctcaat 120
ataaccattt taccacatgc cttcatctc cccaagtttg acaaaccatt cctaccacat 180
aatccacta aacattttac aactccgaaa tcgccacata ttccaatata atacctaata 240
gctatacacc atgctttaat catatcacca cgtactctt ctcaacatct cttctacttt 300
gtttatctat cttatctttt aactactaag attctttttt cccttaccaa tttttaaaac 360
aatccaacta cccatttccc ctt 383

<210> 55031
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-D3

<400> 55031

attctccgat cgaccgacgc gtactcccag gcgctctatg gagaactgaa gcttttttttg 60
ttatactgat tatgagttac ctgtagtttg gttaaaataa aaaaaaaaaa aaacaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaataaa aatttaaaaa aatttaaaaa aaaaaaaata aaaataaaaa ataataataa 240
tataaaataa aataaaatta tcataaaaat ctttaataat taattatatt aattttttata 300
taatttaaaa atattatttt atattaatta att 333

<210> 55032

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-041-Q1-K1-D4

<400> 55032

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ttttaccagc tgcgcctttt ccatcggtct gttcaaactt cattgtcgct ctactctctc 120
ctncattacc ttttgctct catcttgtcc acttgaaact gatccacatc ttaataacat 180
aactttcttg tccaaattta atctttcttc tttcaacaat acaaggagtc atttacaaca 240
agttttttac ttttttattc cttcattttt ctaccttctc ataacacctt ctatttttta 300
tttcccaaatt ttctatctta atatcttatt accta 335

<210> 55033

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-G8

<400> 55033

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aggatgagga cgtcttctgc ggcgagcagg ccccgccgc cgccgcccgc cttaagacag 120
attcggtgct caaggcgtg aacttggggt cccctaagag cggcgacgcc ccgcgggggt 180

tccgggagaa acccaggcac tccgagaagc cgaccaagta cgccggcagc cccaagagca 240
gcgctcctcg cgtgatccac cagcctcgct aggttcgctg gccggcccct gatggggact 300
aggtgactca catggaaggc tgctgcctct ctagcagcat ctgctactgg ctgcagctgc 360
cgtcggcgt 369

<210> 55034
<211> 147
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-040-Q1-K1-G9
<400> 55034

tggactctcc ctttaactgt tcatttaacc ccgcttattt tcttgtttcc cccaacttca 60
ccctacact ttccaacccc cctatccccc catacttttc ctttctacc ctttctttaa 120
tcccaccatt cttctgtttt tcccctt 147

<210> 55035
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-040-Q1-K1-H12
<400> 55035

tgatggccag ctggcccgtc agtccccaa gtcttataca ttggggcgaga ggggtggggc 60
tcctgccttc catgatgttg gcgctgcctt ccgtgggtgtt ggcgttccct tccgtggtgg 120
cctcagtgaac gtgatctgcc gggcctgcaa ccagattggc catgcgagtc gtgactgcat 180
ggctgggtgct ttcatgatct gccacaactg tggggggcgt ggccacacgg catatgagtg 240
tccctctgtg agtctcattg agaggttccc acctcgccgt ttctgaagga cgtccaaggg 300
ctatccagat gactgttggt tttagcccat tgtgtcaaga aactcattt ccgttttctt 360
ttttttttcc aaaccctaag ggattctaga tctttcagat tcttaacttg tcagcactat 420
ttgtgattcc ctaatggatt ct 442

<210> 55036
<211> 362

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-A11

 <400> 55036

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 gagccgtggt ggtagtgccg gtggtggtca aagttctctg ggttatctct ttggaagcgg 120
 tgagcccccc aaaccagcag tggcaccagc tgcaagtgct ccacctgttg agaaaccatc 180
 tgctgcaaag actgatgcgg ccaagcaggt tgctgctggg gttaccagcc aaaccaataa 240
 ctaccacagg gctgatggtc agaacactgg caacttcctt acggaccgtc cttcaaccaa 300
 ggtccacgct gtcctggcg gtggctcttc cctgggctac ctgttcgggtg gcaactgatg 360
 cc 362

<210> 55037
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-A3

 <400> 55037

 cccacgcgtc cgcagtcctg cagcacgctc tocaatgcgt cgtagcgtct caccaactcg 60
 gggacggagc tatatcaagt caccacaaca cacaagttca cacttaaaaa aattcctata 120
 ttaaaatgat atcacccgca caacaagatc tagaccata tctttatatc ccacaacaag 180
 cgttatgtca catatattga a 201

<210> 55038
 <211> 110
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-A5

 <400> 55038

 actgcaatta aattctccaa ttaatttttt agacaacgtt catctcatat ttgaattcgt 60
 aaaccctgga aacatgagcc atgcaaagat aaaaatgagt ttgttttaac 110

<210> 55039
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-A9

 <400> 55039

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 catttacaac ttctcgagca cccccacacc aacccttacc accttcacc ataactcctc 120
 caccactact atctacctct cctccaacta taacctccac caactcctca ataaattagt 180
 gtaccttaac aagcatcgag atttactata actggacctg attctctaga cctagctcga 240
 acatcacttt cacaccattc actatgccaa catccacacc ctccatcaag tgctcaacct 300
 ctaaaaccca tatttctgta aataattgac tatccaagat catccacat aagatctgaa 360
 ctctaatect ctgttctctt ccatcaaate aaatat 396

<210> 55040
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-G12

 <400> 55040

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 aaaaaaaaaa acaaaaaaaaaa aaaaatgtaa aatttttaaaa aatctaaaac ccaaaccaca 120
 tctacaaaat caatactata atactaaaat aatacctata ctctatcatc attcattaat 180
 cactcataca ttctcttttc atcttatccc acttcaaate aatctaataa accaactact 240
 atccaaccca atacactcat atttaaaacta attocattac accaataate acaattcta 299

<210> 55041
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-B10

 <400> 55041

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gataatttcc aaatgctccg gggcacacac aattcaagca gcaacattac ttccagaact 120
 tgaccaagca cacctacctg aaagggcgct tcgacatgat caccttcgtc accatcccc 180
 ttgcactagc tgactacatc atgctcatga ttggacgtgg agtttacaac atgtatcatg 240
 gcgttgggaa gaaagagcga tcttccactg gttaactatt gcttctgctt ggcattgaat 300
 tcataccgtc aatactgcta aatcctcttc cctagcaaaa taatactggc aaataacaat 360
 t 361

<210> 55042
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-040-Q1-K1-A11
 <400> 55042

tacgtaaaaa ttggcatcca atttagcatt atagacactt aaaaaataaa aagaaaaaag 60
 taaaattaaa aaaaaaaaaa gtacaaaaaa aaaaaaaaaa aaaaaaaca aaaaaaaaaa 120
 aaaaaacaaa acacaataaa ataaaatgat taactaaaca cataacttaca aagaacaaaa 180
 tcaaaatata atactataac tcgaaataaa caaatcaca catatattaa aacttcataa 240
 cttgtaaaaa attaaaaatc caaaaaaaaa aactactaca ataaaaatca tgttaaaaaa 300
 acttacaaaa aataa 315

<210> 55043
 <211> 291
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-040-Q1-K1-B1
 <400> 55043

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 ggtatcgtgg atatttaca ggatctgatg cacaatcacc agagcgaact agcagaataa 120
 ttggctgaaa ggaagcacct cttctgcaca cgcccacaaa cactgagata gaccatccgg 180
 gcaatggacc tggagacgct gagtccttac gagccatggg atgccaagcc agtcgtcgcc 240
 ctgatcaaca ggtttcttgg cttcccaatt gtctgacaaa taaacgacga g 291

<210> 55044
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-B5

 <400> 55044

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 gatttgagac ccgaaagcat catacaatat gtgctatctt ctatctacac atgtatccag 120
 tatgggtgaat attcatactt taaggctcagg tactttctaata aatactaata ctaaccactg 180
 gatgctattg taagtgc aaa ctggttgcca acattcatat atggcggagt gagacttttt 240
 tactgtatgg cgcaagcatt caaaaacctc ct 272

<210> 55045
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-C1

 <400> 55045

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 gcatcaacga caagtttcaa atggagaagg tacatacaga ggtgaggacg acgatgcgct 120
 cgccggacgg caagaagctt gacatactat ctgatgatga cctctgcagc atgccctacc 180
 tcaaggcgac catcaaggag acgctacacc tgcacccgtc agcaccttc ctactccgc 240
 actactccac cgctcgactcc gagatcgact gctacttcgt ccc 283

<210> 55046
 <211> 117
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-C10

 <400> 55046

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 catttattta aaaacaatct atataaatca attttactaa tcacatacaa tcaatat 117

<210> 55047
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-C11

<400> 55047

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 gctcagtcctt tccagagcat ctgccatctg aataattctc aatagaatgg aatgggttg 120
 ccttaatggt ccttgccatg gttaattttc ctttatacat cttgccataa tgtccacatt 180
 ctaagggacc actgtcacct ggaaaccttt tccaatactt tttccccatt caatgtacat 240
 atttccatcc cttgggtgtt tagctgttct catcaaactt aaactgaatc ttggtacatt 300
 ggtgtatcct taattttaac actgcaattt taaaaagatt tttccccttt taaatttttt 360
 gct 363

<210> 55048
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-C12

<400> 55048

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 tccacagccc catcaaaaac atttaaccca aaacaaatat caatcaatat taatttataa 120
 aaataaccaa attattttaa tccaacccat catattcatc aataccctta tacaaaaaca 180
 tcttaaaact aacaatccta tttctaaacc ctttccttta ctctttacca accataaacc 240
 taa 243

<210> 55049
 <211> 110
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-040-Q1-K1-C3

<400> 55049
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aaagcataga acccctacca tattcttttaa tttgtacgct caaatatact 110

<210> 55050
<211> 126
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-040-Q1-K1-C6

<400> 55050
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gttaacattt acatagccct atcatacaac cnnCGGGGga ggggtaaccg gcatgcctat 120
tctaaa 126

<210> 55051
<211> 208
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-040-Q1-K1-D10

<400> 55051
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cagatcagaa cccatttcta caataattac ctaccaattg ctttttagaa accatttaaa 120
aacaatcctc accctctaac acataaatc actaaaaaac ataatcttt aactcaataa 180
atcctataaa aaattccctc cccttaca 208

<210> 55052
<211> 253
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-040-Q1-K1-D2

<400> 55052
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atctgcactg cgctgggtccg gaactgcctc aaggagccct tcaagtctga tgccgaatac 120
ctcgagaagg ttcattttctc cattttccaag tgtacggatg gcaagcatga gaagccaact 180
gtccgcacag aaatcgatga ctaagggctg gcgcaccatg gcgacatagt ccttcctaca 240
gatgatttga agc 253

<210> 55053
<211> 252
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-040-Q1-K1-D9
<400> 55053

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atatgttatac tgaccttcaa caactttgtc aacaactctt tcaatctatt cccaacctta 120
tacttaacaa caaatctaag accaaactga ctatccatct ttactcaatc cacataaatc 180
tccccgctat ccttcacgac ccttacaacc taacctctta tatcgctaag agacacacct 240
ctactaatat ca 252

<210> 55054
<211> 366
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-040-Q1-K1-E12
<400> 55054

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ggccagcgac taccactccc tcaacaacgc cttcagcacc tacggcgagg tcctcgagtc 120
gaagatcatc ctggatcggg agacgcagag gtcccgcggc ttcggttcg tcaccttctc 180
cacggaggac gcgatgcgca gcgccatcga gggcatgaac ggcaaggagc tcgacggccg 240
caacatcacc gttaacgagg ccagtcctcg cggcagccgt ggaggctgcg gttgcggata 300
cgggtggcggg cgccgtgatg gaggtgcta cggcggttgc ggtggaggct acggcggttg 360
tcgtgg 366

<210> 55055

<211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-F11

 <400> 55055

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 acttgctgcg caaatgatcc tcctaaaagc aacctgcacc tctatctgat gattgaactc 120
 ataggctcag aataattaca taactttgta actgtttagca ctttaccgtt aaacaatgtc 180
 attgtcacca tccatagtgt gattgtttgc tcgcttgaat gtattaag 228

<210> 55056
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-F12

 <400> 55056

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 acgttctact catgccacac aagacaactt caacaaggta tcaatcttcc cgcccttcac 120
 caacattaga aagatctctg cgcacattgc cgcaaccatg actgcaaaag cttatgaact 180
 ccgattgtcg acccgtctgc cttccccaat ggacctggtg aaatatgcac agagctgcat 240
 gtacactcct gtctaccgta actaccggta gtgctgctgc gatcaattct gcactaataa 300
 aatatgtcga cgcacatgaa ccttcaatgt tgtactttat tttttcat 348

<210> 55057
 <211> 113
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-F6

 <400> 55057

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 cccatttcat tcctatcat tctcataccg gttcaagatt atccaatcac cac 113

<210> 55058

<211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-F9

 <400> 55058

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 gagagcgaga gagagatcta gtagagaggg tagtatgtgg tcgtcgaacg agacatgttg 120
 gcggtgttca gcgggcaggt ggtggaggtg ccggcggagc tgggtggcggc tgtcagccgg 180
 acgccgtcgc ccaagacgaa tgcgtcgcac ctggtggggc gcttcctggc cgcgtccgaa 240
 ccggtcgtgt tcgtgcagct tggcgaccac cggcacctcg tctactccca caccaaccat 300
 gcgctccttc gtcccatgtc gttcgcggtc aaggacgatg tggtctgcct tgtcgagggg 360
 gtgctggaca accttggtcg tttgatccag 390

<210> 55059
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-F10

 <400> 55059

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 agagaaaaac tcacaagaat gacttttctt gaccggtggc aggtcaacaa cttnttcac 120
 aaccaaataga agagcctttc taatccatct catctcattc catttgcaca taatggagct 180
 tggtctccta tgatagaccg tttctttgtg tgtttagggc aatacctcgc atttgctttg 240
 agaattataa tcgtgggttaa acctgacaat gac 273

<210> 55060
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-F2

 <400> 55060

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tctcttttgc tctgatcttg ggagtgccag tcggtgtgcg ttgtggccaa ggagaaggaa 120
 aaaacttctt ggacagcatc tgccctgcgc ggtctgatgg gcttgggttg cttcgggtgc 180
 ttcgcgcgag aggtggttga ggaccttaag cccttctagc ccgactactc gttatgtgcc 240
 gtttcgagga ggatggttct gccggatggt gccatctgct actcgcacat tttcaccttt 300
 ttggacctgc ttgtctctta ccgtcttctt ttcctctctt atttggttgg ataatgttgt 360
 ttcgttttagt ttttcattgt cattttcatg ttttttat 398

<210> 55061
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-F3

<400> 55061
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 taata 65

<210> 55062
 <211> 79
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-F9

<400> 55062
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 cttttttttc ttcttcacc 79

<210> 55063
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-G10

<400> 55063
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 tgtgacattt tttaggggat ttcatcacat ttaatcctat ttataaaact caaatgtcat 120

ccgaaattct atttaactta tggaaaaata aaataatttc tctttcaatc ccctccaact 180
tctgattatt taagttccta aacttatcct tattgaactt aaatcctttt ttttgaattg 240
taagtgttta tagaaaaata tattttacctg cttgtgatat atttttattt tttttatttt 300
tttttttttt ttcttatttt tttttttttc ttattttata ttttaaactt tacacttaat 360
ctctttttta ttattttctt tactttttatt taaattttta ttttatattt 410

<210> 55064

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-G12

<400> 55064

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gagggtttaac ctcggcagtg tcctggtttc agatgtcgga aatcaatatg catgggagct 120
accatcctgt atcctctcca aatcagagag ttcattggaga ttcatacagt aaattacaat 180
ggtgattcct tccatttggt attttaatac ttcaaccatt tc 222

<210> 55065

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-G2

<400> 55065

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cttacttttt cacttcaaga acacacgtta gagaggtggt ttcccttagg aaggggtcgc 120
tcaccaatgc caaaagtttc cttgaggatg ttatctccca ctatcatgcc atcccgttcc 180
gcatgtattg tgggtggttt tttctcatat ctcatcttta ttctttccac tcaaattttt 240
cattgactct attcttttct attcttttat attcatttta tgtccctttt ttaattaatt 300
ttttatttca atttcattag taattttgac tcattttttt attctctttt tttgtgttgt 360
atattcttat tttttattgt tttttttatc tctttttctt ttaattattt ttttcatttt 420
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t

481

<210> 55066
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-G6

<400> 55066

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aaaaaaaaaa aagaaagttt aaattaaaag gctggcgggc taaaattccc nccctttctt 120
cctcatacta ccaacattct tatctctttc atttaactcc aaattttttt tctaccaccc 180
catattttac aacttcttcc cttttataac tcatttctcc ccaaataaac cttcttttta 240
cctaaccata cttttctaac attttctata atatttttat atccctctcc ttatatctct 300
tctaaactat ttcctatatc ttttattata ttttttcccc ccctttttct acttattata 360
tccccctttt ttattctttt aactcctctt ttttttccat ttacttctct tttttaattt 420
ctaataattt atcttttttt t 441

<210> 55067
<211> 274
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-H10

<400> 55067

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gacgtttgat aaccaaata gaagcagana tttgatactg aaaaagttat ctgaggatgt 120
tcactatcca cctaatttga gctccccatt tccttatgca ggccttactt ttccaagcta 180
ccctggtggt cctggttggt atatgattcc acatgtgcca tatatttatg ctgtgaacta 240
tggaacctaat aatggtttcc gattgtaggt tttt 274

<210> 55068
<211> 318

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-H6

 <400> 55068

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 atgggtgtacg tttaagaggg gacattcatg tcttgcttct cggatgatccc tccacagcaa 120
 aatcacagtt cctaaaattt gtagagaaga ctgcacctat tgcagtatat acatctggca 180
 aaagatcgtc tgcagctggt cttacagcat ctgtaactcg tgatagtagc tcgcgtgagt 240
 tttatttgga aggaggagcc atggttttgg ctgatggtgg agtagtttgt atcgatgaat 300
 ttgacaagat gagacctg 318

<210> 55069
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-H7

 <400> 55069

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 tgtgctaacc atcaagaaag atcgcaagga tccctgttaa taaatcatta ccgccagcac 120
 caatacacca agtaatacac ggcgcatac atcaactaca aaccttttta ttaccacgct 180
 tctcattcat gtaaaaaatg aaacggatga catactttta tcaccactag ctctgctttt 240
 ttgagcgaaa tcgagtatgt gagaagcaca ctgcgtgtat acttatcatc atgatgcata 300
 tcttatggca atgaactatg ttattcactt tttcttttat tttaaatact acatctgctt 360
 atttaatatata ttt 373

<210> 55070
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-C4

 <400> 55070

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cgctgaacct gatggatggg cagtgacaac ctgccgttgg gtacgtcggt cccttcactc 120
 ttggcacctt gatcgcgctt ggatggaata gaggggagct gcttaacctg ttggctaggt 180
 gtgagccatt attagtttgc actcatattc atatgctcct tcttcctact actttattct 240
 aacctcagtg ttagtataaa ttttaataatg gttttctatc ttttatttat tattttattt 300
 tccttattgt ttatatTTTT tcttatattg gggttgtgtt attttttttt ctctcttttt 360
 atttattact ttttctatta atttctttta tactttctta ctttatcttt ttattttact 420
 ttattttatc ttcattattc tatttttcat tttctttttt ttcttatttt ttttttt 477

<210> 55071
 <211> 164
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-C7
 <400> 55071

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 tttttatttt tttccttata acaacgcgag agtgtattct taacactttg aagagcaatc 120
 tttttatctc tatcatttct actacatata catttacctc atat 164

<210> 55072
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-039-Q1-K1-D10
 <400> 55072

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 acaattcatg caagggtcct acttaacggc gtgggtggct gcaccacatc acagattgca 120
 ctgcagataa acttcttaac cataatactg ctaggtacca tcgtatatca caagcaaadc 180
 tactcctgat aggtacaaga gcttatctac cattcctata gttcatgctt tttatccttt 240
 actataacac tgtactcata tataaaactcc tttatccata 280

<210> 55073

<211> 139
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-D3

<400> 55073

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tccatcggtg cgttttactc attcgttgag acatgtttct attttccctt ttttaataatt 120
cttattcata tatatacat 139

<210> 55074
<211> 133
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-D8

<400> 55074

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cnccaatata tctnnaaaac gacgatttat ttataaacc ttaccacctt aaacaactct 120
ccaccatttt atc 133

<210> 55075
<211> 126
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-E10

<400> 55075

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gaccgctatc ctgtattatg ggatgggata tatactacta ctactactgg tttattttcc 120
tttaat 126

<210> 55076
<211> 209
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-E4

<400> 55076

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aacaaaaaaaa aaaaaaagga aagatatctt aaaaaagtag gaaagcccc cccaacacnc 120
ccaattcccc ctaatcttat tactcccacc tctttcttcc ccttctctcc tactttaatc 180
ctctttcttca cttctctcaa atctaattc 209

<210> 55077
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-B12

<400> 55077

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ggctggactg tgcattccaa gttggaagtg cctggctggt ctcattctaa tgcctggacc 120
tttctgttcc tgtaatcgta ggcacgtctt aatgtttttt ttaacatata ttttatctct 180
gttctaactg taatagtatt tctatccatc tacatttata gtctctctta ttctcttttc 240
tatattttat cttttttctt tcttatattt tttatatatt tttttttttt atgtttgggt 300
gttatttata tttttttatt actttttttt atttattctt attattttac ttttttattc 360
tttacttttt cttattcttt atttcttttt ttttttttac tttctttctt aatttactta 420
tttttta 427

<210> 55078
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-E7

<400> 55078

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ttcttcatct atactttttt ttatatctct acaaatttta c

161

<210> 55079

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-G9

<400> 55079

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gacccggtgc acaacgtgct cctccacgaa gatgtcgaag acgagcgggt tcctagtcgg 120

ccaatagtcc ctgtcttaaa agcatagga caaaaggccg taaggagcac gttgttgac 180

gacgttgctg gcgtacaggg tctagtggac ctggtcaccc ttcaggctgt cgagctcagc 240

gacgaagctc aggtgttacc ttcctcttgg tctccttggc catgagacac ttatggccga 300

agttggggaa aagaagtccc ttgttgacga cgatgttggc ggcgtcctcg tcggaggaat 360

cggtggagct ctcgtcggag tcccactctc acaacatgt 399

<210> 55080

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H1

<400> 55080

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gcgcaacctc acagccgccc acacggcgcg acatccactg gcgcaagcgc aatccgcaag 120

ggccaacgga tcgcccggcg gcgcccgcgc agcctcctgg ctcgcccgcc ccgcccgtaa 180

cccaggggcg gaaaggccgg tcagccgccc acaccccatc cggccagcca ggcggaaacg 240

accgtaagag ggaagccgca tccggccgct gactccgatc ccacctctag tcaaccccat 300

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actcaaccac acaagtcttt tc 382

<210> 55081

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-038-Q1-K1-H10

<400> 55081

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gacaaggccg ccgcccgcgt ggaacccaag ttctaccctg ccgacgacgt caagccccgc 240
gttcccagca cccgcaagcc taagcctacc aagcttatgt cgagcatcac gcctgggacg 300
gtgctgatcc ttctctcagg gcgcttcattg ggg 333

<210> 55082

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H11

<400> 55082

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atgtgagttc attgccacca aagcccttga atagtgtgct agccgcgcgc cagtctaagc 120
ctagtgttac tccaaaggag cagtttgtta ctgctcggcg gcaagatttg cctgtaagtt 180
caaagcaggg agcagacact aagtcgaga aggataattt cacagtatta gataaggctg 240
gcaatggtcc tgttgtcaaa gaacaatcag ttgatgccca tgcaagcaaa agtaagctca 300
aaatggaaag gccttgcccta gtaatggggg atcgctggct tacatgtggg 350

<210> 55083

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H3

<400> 55083

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tgagcgggag agggtaggtg gcgaggcggc ggagatgggg cgggggcccg tgcagctgcg 120

ccggatcgag aacaagatca accgccaggt gaccttctcc aagcgccgga acgggctgct 180
gaagaaggcc caccgagatct ccgtgctctg cgacgcagag gtcgcgctca tcgtcttctc 240
cactaagggg aagctctacg agtactctag ccattccagc atggaaggca ttcttgagcg 300
ttaccagcgt tactcatttg aagaaagggc agtacttaac ccaagtattg aagaccaggc 360
aaattgggga gatgaatatg tccggttaaa atccaaactt gatgcact 408

<210> 55084

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H4

<400> 55084

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catcccgacc aagaagtgcg aggtgttcac cacctaccag gaccagcaga ccaactgtctc 180
catccaggtc tttgaggggtg agcgcagtat gaccaaggac tgccgtcttc tcggcaagtt 240
cgacctcaac ggcattgcgc cagctccaag gggcacaccc cagatcgagg tgaccttcga 300
agtggacgcc aacggtatcc tgaacgtgaa agcggaggac aagggcacgg gcaagtcgga 360
gaagatcacg atca 374

<210> 55085

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H6

<400> 55085

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agaccatact actgcatgca gatgagcagg ttgccggtga agtcgtttga ccgcaaacca 120
ttcttgaact caaagatggg acgggagctg tgcgtagccg atgtgaccgt tggaggttcg 180
atcaagctgg tgctggctac aagccacctg gagagcccat gccct 225

<210> 55086
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-038-Q1-K1-H7

 <400> 55086

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 gaccctgtgc acaacttcca tgtccacaaa aataaccaac acgagcagat tgctaaccgg 120
 tctataccac ctctgttata accctactga cacattgccg tcaagagcac gttgctgcac 180
 aacaatatcg atatgcaggc tctcatagac cttgtcatac atcacgtatt cctgctcaat 240
 gacgaagctc 250

<210> 55087
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-H8

 <400> 55087

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 aggaccctag ttcacatttt taaatgctcc acaacacaaa ccaccacnag catattccta 120
 accgccaat actacctctc ttataaccat actcacacaa tgccctcaag atcactttgc 180
 tccacaacat tatctacata cagtctctaa aagaccttgt catccttcac atattcctcc 240
 tcatcgacga agtcaaatg ttacctatct ctccctctac ttccacatta tac 293

<210> 55088
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-A1

 <400> 55088

 ccgcactgtt catcatcgtc agtatgaatt gtctattgcc ttcaaagctt tctttcttgg 60
 tcagctttac attgaagaaa tgttctgctc aacctcacia ttatatacta tacataactc 120

atatattatc ttgttcaact tgcactatat ttcatttgag tacttacctt ttattgatct 180
 ctctttaatc taaactagtg ttcaagttaa aatatttata ttatataatt aattaaattt 240
 ttatttttta tattttatta tatttactct ttcttttctt atttttccaa ttattacctt 300
 tcttaatttt attttgttta tttttctttc ttaatctttt atccaatttt tttattttatt 360
 tttttatttt atttaaatat tttttattct tttatcttaa ttctaaattt acaattttta 420
 ttttttctct atcttatctt tactttctta tatttttctt ttatttatct t 471

<210> 55089
 <211> 162
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-A3

<400> 55089
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 aggaaggagg tgtcttctt ctgacgttga gtaccnctgc ttcttttctg gcctctctg 120
 tgccaccgac taccactccc ttacaactc cttcagcacc ta 162

<210> 55090
 <211> 59
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-039-Q1-K1-A6

<400> 55090
 gtttttaatt cccggtccga cccacacatc ctacccttcc atcatctaac tctcccttc 59

<210> 55091
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-039-Q1-K1-A7

<400> 55091
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 gcttgaatac tacctgcgca ccatcccttt cgatgacggc acggcgctga acggcatggg 120

tctggtcggc gaagagccgg ccggtttctc gtcacctgtt tacaggcca tcaactgaaag 180
 caagagtgac aagaggagcg aggagcctac tactctgcat agcttcaacc ccgtgactgg 240
 ctcatcagag gtcggctcac ctgacgagca tagcgagcct gctcccaggt ctgggtccgg 300
 gtctgggtca ggcccgcacg aatcgttgtg gaagaaacag cttctctccc ttacag 357

<210> 55092

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-G8

<400> 55092

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 gccaaaggaag ctgctaggtt cactttccaa gtcacatca tgaaccaccc tgggcagatt 120
 ggcaacggct atgccccagt gctggactgc cacacctcgc acattgctgt caagtttgcg 180
 gagtcatta ccaagattga taggcggtct ggcaaagagc ttgagaaaga gcccaaattc 240
 ctcaaaaatg gtgatgctgg tatggtgaag atggtttcca ctaatcccat ggtagtggag 300
 accttttctg aatatcctcc tcttggtcgc tttgctgtcc gtgacat 347

<210> 55093

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-E5

<400> 55093

cggacgcgtg ggctgtggac ggcgaaaacc ctagatctat tacagcatca atgagaacag 60
 gatggcagaa acattcgacg tggtttcggt gcacgaccat gagctcaaaa tggcgacctt 120
 cgccttctac gcaaacaaaa ctatcaccaa agctccgcac tcaagcttgc atggccacag 180
 taccatccta gcctacgaac tgggtgttat ctaattgagc ttttcttttc gtcaaaacat 240
 ccttggcccc tcttccctag aggttggtc ttacctcgt ttttctgggt tctcgtgccg 300
 gaattaacgt tcttgacctt gtaaggcct cttctatgt ctacatctc ttcgcacctg 360
 atgtttcttt ctttcttctg acatgcggga tcagtctcat cattgccatg tttgccagcc 420

ttccgcgtct acctactt

438

<210> 55094

<211> 188

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-038-Q1-K1-E6

<400> 55094

taacattcca ccccccccc ccacnaccat aaactcaaaa tgtctacctt caccttctac 60

tcaaacaaaa ctatcaccaa atctccccac tcaatcattc atatccacat taccatccta 120

tcctactaac tgattttatc ctaactcacc ctctcttttc atcaaaacat tcataacccc 180

tcttccct 188

<210> 55095

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-038-Q1-K1-E7

<400> 55095

accactcta ctactetaag tttctacat tttctcngct tcaacantat aatgtagctt 60

gccaatTTTT tcttgcccta accctcttc ncttccctt cttcttctt cttctgctt 120

ctttctttct ctgtctctct ctgaccttac tcacgacaac tttttttata acatgaaagt 180

aactgttctt atccttttca tccactactt tactcttact ctttatcctt tttccaacat 240

cccttctttt tttctcttct cctacacatt ttcattcttt cattctcacc ttattttcct 300

ttatcttttt tttctttatt ttatttttat cctttatttt tatattttat tattctacta 360

cttttttttt tttattctaa tttttctttt cttttttttt actattttaat ttctttatat 420

tttttattaa attatttttc tatt 444

<210> 55096

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-038-Q1-K1-F10

<400> 55096

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cntagtcagt ttatgatccc actgccacnn ancttaaaac agcggggggcg gaagtgattc 120
ccggcgggcgt gcgagtgaaa ggggtgggtca tccagtccca caaaggccct atcctcaacg 180
ccgcctctct gcaacgcttt gaagatgaac ttcaacaac acatttacct gaaatggttt 240
ttggagagag tttcttgtca cttcaacata cacaaactgg catcaaattt cattttaatg 300
cgcttgatgc actcaaggca tggaataaaa aagcactgcc acctgttgag gttcctgctg 360
caacaaa 367

<210> 55097
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F11

<400> 55097

ttcccgccag cctgcgagtg aaagagtggg tcattcaatc ccacaaaagc cctatcctca 60
accccgactc tctgcaacgc tttgaaaatg aacttcaaac aacacattta cctgaaaaag 120
tttttgagaa aaagtcttta tcacttcaac atacacaaac tggcatcaaa tttcatttta 180
aaacacttga tgcactcaaa gca 203

<210> 55098
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F12

<400> 55098

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aaagatgacc ctccaagga ggctgctagg ttacttttcc atgtcatcat catgaaccac 120
cctgagcaga ttggcaacgg ctatgcccc a gtgctggact gacacacctc gcacattgct 180

gtcaagtttg cggagctcat taccaagatt gataggcggc ctggcaaaga gcttgagaag 240
gagcccaaatt tctcaagaa tggatgatgct ggtatggatga agatgggtcc cactaagccc 300
atggtagagg agaccttttc tgaatatect cctcttgggc gctttgctgt ccgtgacatg 360
aggcaaacgg tggctgtcag agtcatcaaa agtgtggaga agaaggatcc aact 414

<210> 55099

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F2

<400> 55099

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gacgaataag ttgtcatgcc gtcgtttaaa gaccgtctgg caacttctaa tatcaacgac 120
tcctctccgg atcattctgc catggaaact gaattcacag aattaacaga acagcagtat 180
gaatacaaat cgacagacgg agcaagcaaa agaggcggac gaaagaaagc gtcacatcatc 240
ttggcaacga tactatctga tggtgatgag gaagttctac atgtccaaac tcacaataaa 300
ggtactggaa ggtagcccg 320

<210> 55100

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-038-Q1-K1-F4

<400> 55100

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tccaccaaaa caattgggca tgtagacgaa tatgttgtca taccagccat taaaaaccct 120
ctcacaactt ctaatatcaa ccactactct tcgaatcatt caacagcaca aactgcattc 180
acagaa 186

<210> 55101

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F5

<400> 55101

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ttctgagacc aacaatattg gcaagtgttc cccggttata taacaaaatt tatgctgcaa 120
ttacgaatgc tgtgaagcag tctggggggg tgagagaaag gctgtatcat actgcataca 180
atgccaaagcg acatgccatg ataaatggta gaaacccatc acctatgtgg gacaagttgg 240
tatttaacaa aattaaagct agacttgggtg gacgaatgag gcttatgact tcaggtgctt 300
ctccattgtc accagatgtc atggaatddd taagaatatg cttcggtgaa gttcttgaag 360
ggtatggaat gacagagaca tcttgtgtca tcagtacgat gaatattggg gacagatcaa 420
ttggacatgt tggatctcca aatccttc 448

<210> 55102

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F6

<400> 55102

ataaaaaatt ctttatcata catgcataca atgccaatcc acattccatt ataaatcata 60
caaacccatc acctatgtat tacaaacttt tatttaacaa aatcaaattc atactttata 120
tcaaaatatt cttattactt caatttcttt tccattttca ccaaatttcc atataatttt 180
aaataatatt cttctttcaa tttcttcaaa ctattaaatt acataaacia tttatttcat 240
caatac 246

<210> 55103

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F7

<400> 55103

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gccgcccctc cggtcgtagc cgttcgaagg tgcggcaccc ggcaaaccac ccatttcatt 120

ctacatgaat cccgagtagc actacctttt caaacttctg cttattggtg attctggtgt 180
 cgggaaatca tgcttgcttc tcagatttgc atacgattct tatttggaaca gctatatcag 240
 cacaattggg gttgatttca aaattcgcac aatggagcaa gatgggaaga ccataaaact 300
 tcaaatttgg gatactgctg ggcaagagcg cttcatgaca atcactatca gctactaccg 360
 cggagctcat ggaatcattg taagttggcc acctgaacta gcaacttctg aaattttgca 420
 accatattga acatattaca ttaattgct 449

<210> 55104

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F8

<400> 55104

cccacgcgtc cgcccacgcg tccggtggcc tccaactcca aggatgaccc tgccaaggag 60
 gctgctagct tcacgtccca gggtcatcatc atgaaccacc ctgggcagat tggcaacggc 120
 tatgccccag tgctggactg ccacacctcg cacattgctg tcaagtttgc ggagctcatt 180
 accaagattg ataggcggtc tggcaaagag cttgagaagg agcccaaatt cctcaagaat 240
 ggtgatgctg gtatggtgaa gatgggtccc actaagccca tggtagtgga gaccttttct 300
 gaatatcctc ctcttggtcg ctttgctgctc cgtgacatga ggcaaacggg ggctgtcgga 360
 gtcataaaaa gtgtggagaa agaggatcca actggag 397

<210> 55105

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F9

<400> 55105

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 gacgctgtgc acaccttcca tgtcacacat aataaaccac cacgagcaga ttgctaaccg 120
 ctctacacca cctctgttct aacactcctg acacattgcc gtcaagagca cgtagctgat 180
 caacaatatc gataggcagt ctctcataga ccttgctcatg catcacatat tctgtctcaa 240

cgacgaagct catgtggtga atatcttttc cactaatccc acatgagaca ataactttcc 300
tgaatatgct acagaaagtc gcttttctct acgatacatg 340

<210> 55106
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-G1

<400> 55106

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gatctacaca ttttacaagg cacaaggata ttctgttga aaatctctcg tggaagagga 120
taaacttgag ctgcgaactt ctcttattga gaaggcgaag gcaaaggggg tttctctttt 180
gcttcccact gatattgtag tagcggacaa gtttgcagct gatgctgaga gcaagattgt 240
ccctgccact gctatccctg atgactggat gggctcttgat gttggccctg atgccaccaa 300
aacattcaac gaagcattgg acaccaccaa gactgttatt tggaacggcc ccatgggagt 360
gtttg 365

<210> 55107
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-G12

<400> 55107

cccacgcgtc cgccgaagct gtgcctcgta ccatttcgat ccaatggcgc cgacgtcgaa 60
gctgtcgacg ggcacgaagc gcgcttcgag gtcgcacgcg taccatcgcc gtgggctgtg 120
ggccatcaag gccagaacg gcggcgctt cccaaggcc gacaaggccg ccgcccgt 180
ggaacccaag ttctaccctg ccgacgacgt caagccccgc gttcccagca cccgcaagcc 240
taagcctacc aagctcaggt cgagcatcac gcttgggacg gtgctgatcc tcctcgcagg 300
gcgcttcagc gggaaaagag tgggtgttct caagcagctc aagtccggcc tgctccttat 360
ctctgggcct ttcaagatca atggagtacc gat 393

<210> 55108
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-G2

<400> 55108

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 atctctcgtg gaagaggata aacttgagct cgcaacttct cttattgaga aggcgaaggc 180
 aaaggggggtt tctcttttgc ttccactga tattgtagta gcggacaagt ttgcagctga 240
 tgctgagagc aagattgtcc ctgccactgc tatccctgat gactggatgg gtcttgatgt 300
 tggccctgat gccacaaaa cattcaacga aacattggac accaccaata ctgttatttg 360
 gaacggcccc atgggagtgt ttgaattcga gaaatttgca gctggcactg atgcgattgc 420
 c 421

<210> 55109
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-G4

 <400> 55109

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 tcgaaccaga ggagccaagc agaggaagcg aggcggcggg ggcgagatg tcggcgggac 180
 tggtgaccga cgaggccacc gtggggcggc tgtaccgat ccggcgcacg gtgatgcaga 240
 tgctccgtga ccgtggctac ctggtggtgg accacgagct cgccaccagc cgccgcgact 300
 tcctccgcaa gtccggcgag tccttccacc gcgaggacct cctcatcaac aagtacaaga 360
 agaacgaccc atccgaccag atatatgtct tcttcccaa cgatgacaaa gtanggatga 420
 agcacatcaa gaagtacgt 439

<210> 55110
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-038-Q1-K1-E4

 <400> 55110

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 cttgctatag gtattcatta gatcttcata agaaagaaga aattgctgag gaaattgcac 120
 gtttgaagat tggatagagt gccttggcag atgctaagaa ggctgcgaag ggagttgctg 180
 cccagcttat ggattccgtc aacaagctgg aaagtaacat gaaaaccaac ttggaaaggg 240
 ctatgaagga gaatgatcgt gtttacctga tgcgggttcc cgctgctggt tccttgggag 300
 ccctctctgc agcgtccctt gtaaagccta cctctttgtc tgaagtttta gatgccagta 360
 aggaaaggct ttttttcata acttgtgcct gatggcagca tgaaagcact ttctaaatac 420
 acagagat 428

<210> 55111
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-A5

 <400> 55111

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 tcgtcgccga catgtcctcc aacttctgct ccaagcccgt cgacgtctcc cgcttcggcg 180
 tcactacgc cggcgcacag aagaacgtcg ggccctccgg cgtcaccatc gccatcgtgc 240
 gcaaggacct catcggcgcc gctcagccca tcacgcccgt catgctcgac ttcaagacgc 300
 acgccgacaa cgccttcctc tacaacaccc cgccttgctt cgccatctac gtttgcggtc 360
 tcgtcttcta ggacctgctc gcgcagggcg ggctcgccga ggtcgagaaa gaaaacgcgc 420
 gcaaggcctg ggccctctac gacaccatct acgccagc 458

<210> 55112

<211> 339
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-A9

 <400> 55112

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 gactaccgag agccccgcaa caggtcgggc atcctcgctg ccgacatgtc ctccaacttc 120
 tgctccaagc ccgtcgacgt ctcccgttcc ggcgatcatc acgcccggcg acagaagaac 180
 gtccggccct ccggcgctac catcgccatc gtgcgcaagg acctcatcgg cgccgctcag 240
 cccatcacgc ccgtcatgct cgacttcaag acgcacgccg acaacgcctn cctctacaac 300
 accccgccct gcttcgccat ctacgtttgc ggtctcgtc 339

<210> 55113
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-038-Q1-K1-B4

 <400> 55113

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 gcaacaacta cgaaattggt aatatgatag cagaggccat gagcaaggtc ggtcgggaagg 120
 gtgtgggttac cctcgaagaa gggaggagtt ctgaaaactt tctctatggt gtggagggga 180
 tgcaatttga tcgtgggttat atctctccgt actttgtaac agacagtgag aaaatgtctg 240
 ccgagtatga gaactgcaag ctacttttgg ttgacaaaaa gatcaccaac gcaagggatc 300
 ttatcaatgt tttggaagaa gccatcagaa gtggataccc aatcctgata attgctgaag 360
 atattg 366

<210> 55114
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-B7

<400> 55114

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ccagcaacac cgaaaccag gcttttagaa catattctac tgtccagtcg caaactcaac 120
cataatgtct cggacaaaca acaacttatt atactcttcg gaagccaacc acgatcatct 180
aaacccgccc tatctctcat gctatttaca aatagcatat gcaatggtct gctccc 236

<210> 55115

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-B8

<400> 55115

aattcatcaa gctcaacacg atctcaattc gattccagtt catccatcca acgcctcccg 60
gctgtacgta tagaagaaag aaggaagaac cgtcaccgta cgtcctcgcc agtaciaaata 120
atggccctgc tcaaagccgc gcgcgtcgcc gatgtgccca ccctggacgt ggtggtggcc 180
cccggcctgg tggcggttgc caaggcgagg agcgccgcgg cgggtgggcgg ccggttctcg 240
gtgatcgggc accgcggcaa ggggatgaac gcgctggcgt cggaggaccc gcgtctgcgg 300
gaggtccgcg agaacacggt ccgctccttc aacgacgccg gacgattccc cgtcgactac 360
gtcgagtctg a 371

<210> 55116

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-C1

<400> 55116

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taacaaagac aattgcagag ctggaaactg aacttaatcg gcttggaaaa ccattgcta 120
atgatgctgg ggggaagctg tacacgatca tggaatatg ccgtatgttt gatggtattt 180
acaaagagca tctggatgga gtgcgccttg gcggagagaa agtttaccat gtcttcgaca 240
atcaatttcc tgtagctatt aaacgattgc agtttgataa acaactctct atggaaaatg 300

tgaggaagct tataacagag gctgatggat accagcctca cttgatagct ccagaacaag 360
gatatagacg ctttatagaa tcttgtctta ttagtatcag aggtcctgct g 411

<210> 55117
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-C3

<400> 55117

gcgcccagca ggccattctt ctcgccttac tccctcacag aaccagtaa aatattgcta 60
gtccccgcgt cgagatggcc ccacgcccgc tgcctgctct cgccgtcgtc gccctcgcg 120
ccaccgtcgc cgcgcccaac tccggcttcg cggactccaa cccgatccgc cccgtcaccg 180
accgcgcggc cttcgcgctc gagtccacgg tcttcgcgcg gctcggggcg acccgcgacg 240
cgctccgctt cgcacgcttt gctgtgaggt acggcaagag c 281

<210> 55118
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-C5

<400> 55118

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gagagaacga atatggagat tattatgaac aagcgtatgg agctggcggc aaaccatacg 120
ccatgtgggc agctagtatg gctcttgctc aaaacactgg cgtcccttgg attatgtgcc 180
aagagtctga tgcccctgat cccgtgataa actcttgcaa cggtttctac tgcgatggat 240
tccagccaaa ttgcgaacc aagccaaaaa tttggactga gaattggcca ggatgggtcc 300
agacttttgg tgaaagtaat cccacagac cacctgaaga tggtgcattc gctgttgac 360
gttttttcga gaaaggtgc agtggtcaaa attactatgt gtatcatggt ggcacaaatt 420
ttggtcgcac tact 434

<210> 55119
<211> 296
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-038-Q1-K1-D10

<400> 55119

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aagattattc ttgggtcata aatgggttaa acaagctatt cagatcaagg cgtgttctat 120

cctattcgta tccgtttgca ttctacatgt ttggatga gattttcaag gatgagatga 180

ctcctcanga gagagaactg aagcagaatt tgtttgagga tcagcaacaa caattagaat 240

ttaatgttga aagattgtct gggttccttg agaaaaattt tcaacttttt accgat 296

<210> 55120

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-D11

<400> 55120

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gaggaatggg tatcgacctc gtcgccggtg ggaggaataa gaagaccaag cgcactgcgc 120

ccaagtctga cgatgtctac ctcaagctcc tcgtcaagct ctaccgtttc ttggtcagga 180

ggaccaagag caatctcaac gctgtcattc tcaacaggct tttcatgagt aaaaccaacc 240

gaccaccaat ctccatgcgc cgccttgta agtttatgga aggaaaggag aagaacattg 300

ctgtcattgt tggcacagtc acagatgaca aaatgatcca cgacgttcca gcaatgaaag 360

ttactgcct gaagttcact gacacagcaa gggccaggat tgtcaatgct ggtg 414

<210> 55121

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-038-Q1-K1-D3

<400> 55121

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tttatacatt aacttccccct tcaaacatth ggctctatgg caaagacgga gaaaattgct 120
 ttcattcttg agcagggtccg gctatgcctg gatcggcaag attttgtcag agcacaaatt 180
 ttatccagga aaatcagtag tagagtatth cacgcagatc catcaaaggg aaaaaagaaa 240
 ccaaatgatg gtgacagtat ttgtcatgat gctcctgcaa atattccttc ctttctagaa 300
 ttgaagcgcg tctactacga actgattatt cgttattact ctcacaacaa tgattacttg 360
 taaat 365

<210> 55122
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-D4

<400> 55122
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 agtgacagta ttgttcaaga tgctcctgca aatattcctt cccttctaga attgaagcg 120
 gtttactacg aactgatgat tcgttattac tctcacaaca atgattactt ggaa 174

<210> 55123
 <211> 366
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-E1

<400> 55123
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 tttccaggtg aagttcaaga gaaggcgcg tggcaagaca gactacaggg ccaggataag 180
 tcttattaac caagacaaaa acaattacaa tacacccaaa tacatatttg ttgtgcgatt 240
 taccaacaag gacatcacag cacaatcat ctctgctagt atagcangtg atatggttct 300
 tgcttctgct tactcccatg agttgccaca atatggtctt gaagttgggc tgaccaacta 360
 tgcatt 366

<210> 55124
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-E12

<400> 55124

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ttcccggcgg cgtgcgagtg aaggggtggg tcattccagtc ccacaaaggc cctatcctca  180
acgcgcgcctc tctgcaacgc tttgaagatg aacttcaaac aacacattta cctgagatgg  240
tttttggaga gaggtttctg tcacttcaac atacacaaac tggcatcaaa tttcatttta  300
atgcgcttga tgcactcaag gcatggaaga aagaggcact gccacctgtt gaggttcctg  360
ctgcagcaaa atggaagtgc agaagtaagc cttctgacca ggttatactt gactacgact  420
atacatttac gaca                                     434
  
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<210> 55125
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-E2

<400> 55125

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gcatgccgtc gaagccgaac gccgcgtctc gcctcgtctt cctcgcttcc ctctcgtca  120
ttagcgccgc cgcggccaac gatgacgccg cggcgcgggc gacgatggag cagttcgccg  180
gtttccccgc ctccgacgac ggcgagggcc cttccagcga cttccacgtc gactccgagg  240
gcctccagcg tcagattgat gaactggcct cgttctccga ctgcgccgcg ccgtccgtga  300
cccgcgttct gtacaccgac aaggatgtgc aggtcgaag gtatataaaa gggataatga  360
atcaaaaactg gcctgttggt cgagaagatg c                                     391
  
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<210> 55126
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-A4

<400> 55126

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gaagaaaagg gaagaaactt gtgatgacat gttagcacgg ttgtgctcga accaactgtc 120
ttgaccttga atggacattt tttatgttta ttttatgtat gatcaggta acggcaagag 180
aaaccaatta cactgtatga gcttttagatc acacctcaag ttattctgta gatcttggtg 240
ctatttcata tgatgggtca tgtttcatga tgttgactcc gtttcctgtg attgatttat 300
agcgagcctg tacgttgtat gtcatgcaaa 330

<210> 55127

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F5

<400> 55127

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gaagcagctg gccacgaagg cggctcgcaa gtctgccccg gctaccggcg gagtgaagaa 180
gccccaccgt ttccgccccg gcaccgtcgc gctccgggag atccgcaagt accagaagag 240
cacggagctg ctgatccgca agctgccgtt ccagcgcctg gtgcgtgaga tcgcccagga 300
tttcaagacc gaccttcgct tccagagctc cgccgtcgcc gcgctgcagg aggcgtccga 360
ggcctacctt gtcgggctct tcgaggacac caacctctgc gccattcacg ccaagcgcgt 420
caccatcatg cccaag 436

<210> 55128

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F6

<400> 55128

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ggctggtgtt ctgatcacc ccccgccat tgccgggact tgcttcagc aaagcggagg 120
gaaaataata attatttgtt tttaacttaa atgatttgcg tttcgtctct tgtactgcgt 180
cgagcgtcgt cttcaattag cgagtgatgt aaaattgtga ctgctaattc ggactgttaa 240
ttactggtga ttgcagcagc catgtgtaac gtcgatgacg atataatcat ggagcagttt 300
tacgcgc 307

<210> 55129
<211> 324
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-037-Q1-K1-F7
<400> 55129

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attggcggct tcatttgttg ccccggtac tgattcgta gaagatgata gccaaactaac 120
cattgaagag tatcagagga gttgggagca gaacgaggaa cttggcctga atgacatgga 180
tacgtcctct gcagacgcgg cttacaacac gaccagcaca taatTTTTTT agttttgttg 240
tgccgaatgt atttgttacg ctatcagttt actttgatga actttcagtg tgtataactaa 300
tatcaacaac ttatatTTCC tctg 324

<210> 55130
<211> 197
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-037-Q1-K1-F8
<400> 55130

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tgtatacata ctctgcatac cttttttaca acaccacat cacataatat ttttactcct 120
attctaccta atatacttac taccacctta ctttactttt attaaactttt tacttatata 180
ctaacatcaa caactta 197

<210> 55131
<211> 190

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-037-Q1-K1-G12

 <400> 55131

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 tattttttttt tgtttgatgt gtaatgatgt tactgttcaa cgcttattac cctactatac 120
 tgttggatgt tctttggacc tgtttcattt cgcacaagga ttggacttcc aatatcaagc 180
 tacatttttac 190

<210> 55132
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-037-Q1-K1-G2

 <400> 55132

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 gattcctgct tgtcagaagt gtaacagaaa ctgtgtcagg ctttaacgat gtttaaagag 120
 tgtaaatttc agttcattgg gggtagagcg tatgctgcac ataggccatt ttccagtgc 180
 gtgttactaa ttaatttggt cattgttttt ctctctccca aaaaaaaaaa aaaataaaaa 240
 aaaatccatc tgcaatgggt aagtgttgtt actgttgtct actattacta tccatgagat 300
 ctgtttggaa tatgcatcgg acttgtgggt aacatgaatg actttgggtca ttctgagata 360
 atattagcta cttacaca 378

<210> 55133
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-037-Q1-K1-G4

 <400> 55133

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 cgtttcgtct cttgtactgc ttacagcgtc gtcttcaatt agcgagtgat gtaaaaatgc 180

gactgctaatt cttgaccgct aattttactgg tatctcagca tccatgtgaa accttgatga 240
cgatataatc a 251

<210> 55134
<211> 152
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-037-Q1-K1-G6

<400> 55134

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ggggcttcct aacgcgggag ggcgaggtca ttaccttttg ggtcggcccc cctaaattaa 120
ctaaattgcc ccccccttta acaacaacgg aa 152

<210> 55135
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-H1

<400> 55135

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aacataactg ttgctttgca gcacagttta gcaagaaaaa ttaaccacgc aatgtgcctc 120
tgggttgctt gcagggaatg cgaacatcaa tgggtatttcg gatacctaatt tctagtgtg 180
catttgctgt gtcaatgtca caccatacat gtggtagaga gagacctaca tcctgaaacc 240
acatagctta cgggtgattat tgagacttca gagagcatct cgagcagcaa tcctgcatac 300
aattgcgtcc gggttttcat atgctttcat ttctccgcga ataatgagaa ctttttggtta 360
taccagctca tc 372

<210> 55136
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-H10

<400> 55136

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ggaccaagtc cctctgcgag gagctcatca aggtgctcga ggccatcaac catcgcaagc 180

acatatacc gatgctcgag tgccctcaagg agtggaacgg cgcgcccctg ccgctctgct 240

gagctcatct gagctgcacg cacctgctcc gcacaaagaa agaaatacaa tagtatagcg 300

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tatctaccag tcgcttgtat ta 382

<210> 55137

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-H3

<400> 55137

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gcctcagaat gcgaaccgat gtctcgatcc tcatcgcaat gctgatgcta tgtgcttccc 120

tcatctgaag gtagtcctgc acaacatcat atgcccgcgtg gtgcattaga gctgaggatt 180

tcacattgag ctgctaata caattctttc caccaccttt atgtagegat ttttttcttg 240

ttctgtccgg tgttttgaag gatggatgga tgttcagctt gataacctca cggtgacact 300

tgtgtgtgct gccgctgct ctaggtatat tttggtacat atgtgtggtg atacattgtt 360

caggtcatct tttctactgc caaaccctgg cccggagggc 400

<210> 55138

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-A2

<400> 55138

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cgggatttcg tggatattag gacaaaaact cgcattcttt ttcaaagaga agactatcta 120

aacaaaatta gacatcttcg tggtaaatat gcgctgacag aaatctacaa gattaccctc 180
tagacaacac aacttttgag agatgataat ttgcacaaa atgcattcac ccgatatgat 240
aagatctgcc cattctacat atatttttgc atgatgcgca acatta 286

<210> 55139

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-A3

<400> 55139

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gagtaatttt ataccgcca cagctccggc attctcgtcg ccgacatgtc ctttcaactt 120
tttgttccaa ccccttgaca ttttccgctt 150

<210> 55140

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D4

<400> 55140

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tcctggcctc ctggcctgaa ctacacaggc cgggcgggtgc ccaatcagta tactgactga 180
cctgcattgc attacatata gagactgcct gctgcttact gtactgtaca tctttgcatt 240
tgggttcaag ccacgttttg gtgcttggat gatgtgaaga atggtattgg actggtgggg 300
gtttctttat ctagcaatag cgtacatgat ttgatacgac gtacaaaatg actgcttgcc 360
agtgaaaata tatccatttg ttgttt 386

<210> 55141

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D5

<400> 55141

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tgctgggtgta atctaccttc atgttgggtc atgatattgc gatggtaact ggaaaatgta 120
cagtggatga caaatgcacc gttccaagtt taagttattt ctagagaatg tgactaaata 180
gcctcttggt 190

<210> 55142

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D6

<400> 55142

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tgctttgttc g 71

<210> 55143

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-E11

<400> 55143

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aaatgaacca tggtattctg gccgggcttg caaaccttgt cgggaaaaaa tgaggaggac 120
caacctgatt gacaggttcc tggaattaag ttcagttatg aatcctggta aggaagcaaa 180
gttagataaa gtaaataatat tgagtgatgc agcccgtatg gtggcacaac ttagagggtga 240
ggcagaaaag cttaaggaat caaatgagaa gctgcaggag aatatcaagg atctgaaaga 300
ggagaagaac gagctccgtg aagagaaagt gagac 335

<210> 55144

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-E8

<400> 55144

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gagtaaaca atttgggtgg gctttcatcc accctaaata catattttat aaaggctcct 120
aaactgatta aactcttcag cttcttaatt cttccttact tcatttaatt tgctattctt 180
gtttcatatc tgtatatgca tctaactttt ttttaaaatt taattttttc cttttgtgaa 240
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<210> 55145

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F1

<400> 55145

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ccccctttat tccccaaact ttctcccccc ccctcccccc tcatatccct ttcttattcc 180
cccccaatth caatccccct ccccccttt accccccccc ttcccctata aacccccctc 240
cctccccctt tttttcccc tcttcccccc ccccttttcc cccacctccc cttttcccaa 300
aaatcccccc cctttcccc cccccccct tgtccccccc ctatttccct tatttttccc 360
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<210> 55146

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F10

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<210> 55147

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D3

<400> 55147

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aggttcaaca acttcaggat caattatagg ctgagaagca agaaaaaatg gacttcgtga 180
tgaagcggaa accattgata gtatgaagag gttgatggaa gaaaataaca accttcttcg 240
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aggacatgca gccttggtgg agctatagta gtagtagata tttatagttg ctctagattt 360
gaagttatag gattatTTTT aattatgttt aatgtttaat aatttgagtt gaagttataa 420
gatttgcttt gaatt 435

<210> 55148

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-B4

<400> 55148

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ggacttaggg tctactattg ctatcgatgt agacaacgga ttgcaaattg gaaaaatggg 120
ataaaaacgc tggatatttt tttttgccta aactacagct gtgctacagc aaattttgct 180
taaaagcaga aaaagtgatc tatggttttg ctgacaccaa gctgggaaat aggaagactg 240
aatcgacctc ttaagcgggg aatgtatcct tttttgctgc cacatataaa atgctaccca 300
tgcatacctg ggcaccttat aacttatgtt tggggatttg ctacaaagat ggtttcaata 360
tataggggta ctagaatgtc tgtggaaaac taccgtataa cgcacatttg agtg 414

<210> 55149

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-B7

<400> 55149

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 gtgcacctgc tgaggctgat ggtgccaaagg gaaagaatgg tgctgtagaa acagtcaagg 180
 atgataatga gaaaaaggcc aaaaaaaagc ggaagaagtc taaccctgaa gaaactgttc 240
 atgtggaagg taaagaggct gcagggaag attcaatccc aaaacaagat gatgcgaaca 300
 agagtgaat ggagattgaa gaaggtaacc aagggaagtc gtcaaatgaa aatgcagttg 360
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<210> 55150
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-B8

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 tctgcatatg atgggggtga cttgggtggc ttcacagca tggaaataga ttattcgatg 180
 gcgatgcata gttccctttt gctaacaact gcttaaaaac gctctggggg aaggctggat 240
 tacgagaatt ctt 253

<210> 55151
 <211> 336
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-C12

<400> 55151
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 aagaagagga ataggaggaa gaggaggcgt tcccagcatg tctgagggga ctgccaactg 120
 cgtggacatc ctgatcgcca tcatcctgcc tccgctgggg gtgttctca agtacgggtg 180
 cggccacgag ttctggatct gcctcctcct caccttcttc ggctacatcc ccgggattat 240
 ctacgccatc tacgccatca ccaagaacaa ctagctagtc atccttgccg acgacgatcc 300

atgtctctgt atctgcgtct gttcatatgc ctgatg

336

<210> 55152

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-037-Q1-K1-C2

<400> 55152

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tcaatgaaag gatcctctcc tctctgtcca ggaggtccgt agctgctcat ccatggcatg 180

atctcgagat cggtcctggg gctcctgctg tattcaatgt tgttggtgag atcacaaagg 240

gaagcaaagt caaatacgag cttgacaaga aaactggact gattaagggt gatcgagtcc 300

tttactcatc agttgtatac cctcacaatt atggtttcat tccaaggact ctttgtgaag 360

acaatgaccc aatggatgtg ttggtcctga tgc 393

<210> 55153

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-C3

<400> 55153

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gtggctgaca cgtaataaag gtcattccaa aatgggaacc ccctgaatga tttgtcaatg 120

taaacatgat tgetggctct tgtatactgt ggcttattat tcacatcaat taaggataat 180

cctgattgga gcttatcggt gc 202

<210> 55154

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-C4

<400> 55154

cccacgcgtc cgatttttctc atatgtttta actcagagga cagttcctca gatgtttaag 60
atcagacgag agtggatcat agtttttttc cttagtgatg attcctggct gctatgtgcc 120
ttcttg 126

<210> 55155

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-037-Q1-K1-C7

<400> 55155

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gcagcattac taaagaggat ggattaatca aaagagcatt tgatcttcta ggattctcgg 120
atggggatgt gcaggaaaca tctgaattcg atctagtctt catgcatgtt gccatggaga 180
acacaagcag caagtttaga aagttaggaa tgaagacaga tatcaatcgg ctcgacaaat 240
tagttggtgc agtcttgga tctgcgcctg ttggttcagc tattgcttcg cgtattcatg 300
tatctgtgat tttgagctat gggctctgctt ctggaaataa ggatgagtn tcccttttaa 360
cctcttcaac cgaaacagat tcagacttga atctactgcg tccacgccag agctacacaa 420
tgaaaacagg gg 432

<210> 55156

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D1

<400> 55156

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cagttcctgt gcgccgtgtg aagccagagt accaggaatc tgaagagcag tacagagggg 120
aaattgttgg tgtcgacttc aaggacactg gagaatcctc agggagcgtt gacgtcacct 180
ttgacttctt tgtaccaat gagaactaat tccctggact tctatcagag tgtggtctgc 240
aatgtttcat ctgttcgttg aatttgtgag ccctctgggt agaaagttag aatgctttgt 300

tctctacagt gatgtaaata tctaggggcc ctgtttgctc catgtttcct gtaatttggt 360

tctggaatth ttgcagagac ctgcgttggt aggtttcttg taaaaccata acta 414

<210> 55157

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D10

<400> 55157

tcgttcaetg catcttagcg tctactggtg tggagtgaca agtggagggg gtagctgcag 60

ctgtatgcaa atgcaaaaat attacttcca tcgtttctaca aatccaccct tccaagctta 120

agttattttct agagaatgtg actaaatagc ctcttggttct tgcattacat acattaaact 180

gtcttctcct ttttaaaaaa atcaatataa tataaaaaaa atttaattat tataaaaaat 240

aaaaaaaaa aaaaaatctt ttaaataaat taaaaaggcc gcccttttta aaaataccca 300

atthtacttc ccttctcttc caactttaaa acttht 336

<210> 55158

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-B2

<400> 55158

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atgctgatcc tagctttcat ccttcatcag tttgggttta tcggcagatg atgggggtga 120

cttgggtggc tgcacacgca tggaaataga ttattcgatg gcgatgcaga gttccctctt 180

gctaacaact gcttaaaagc gctttggggg aaggctggat tacgagaatt ctttgtatcc 240

gtatcttatg aaagtgtaac tctgtccata aagctatttc atcctatttt taccagcaaa 300

ggtagtagaa aggaatcgag ccgaaactgt tgtgataaca agccgacatg taatatgata 360

atatccttgt ggtgctttca gttttaagta gcagtht 398

<210> 55159

<211> 78

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H12

<400> 55159

cccggccgac ccactcgtcc gcatgcgctc gacaacacat caacaacagc tacacattaa 60

cccaaaatac acctatac 78

<210> 55160
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H2

<400> 55160

taaaccctag ccgccatata tcacgatacct ctctagcacc aagccgaggg aaggtgaaga 60

gcgatttcgc gcggcggtgt gtcggcgatt ggctgcgcgg tcgcgggcaa gaagaagggg 120

tcggtttcct taacgatcga ctgcacatg ccagtgtagg acaagatctt gaaggctgcc 180

tcgttcgaga agttcttg 198

<210> 55161
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H3

<400> 55161

gagcccgagc aaacaagggg ggacgcggat tcgtggcgga tcggagatgg cggagaagga 60

gcgaggcgcc ggcactcgca aggatgaggt ggtgacacgc gactacacca tcaacctcca 120

caaacgcctc cacggatgca ccttcaagaa gaaggcacca aatgccatca aggagatcag 180

gaagtccgct cagaaagcca tgggtactac tgatgtccgg attga 225

<210> 55162
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H4

<400> 55162

cccaaaacca atggcgccct tgtgaaatga gtagccttgg aagggacagg aggaaaactt 60

gtagattcca ttagcagttt agcacccaaa accaatggtg gtctctgctc acagttccat 120

taattgctag ttgaacgggt tcgttggagc ccacaattag gttggttccc tgtgagtaat 180

ttgggtaatc attaagacat tctcgtac 208

<210> 55163

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H5

<400> 55163

accactcgt ccgccgaggc gccccaacac ccgagaacta ccctcccagc acccaaaacc 60

acagccacag gaagagacat ttgaagccac ggaaggcaca cacaataaaa ccagcaaagc 120

ccacaaccac aagagcccc aaaaccaa 148

<210> 55164

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H6

<400> 55164

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gaggccgctt catgcagcag cttgaaatgc tgcgcccgga tcacatccgg cggctaaatc 120

caacgcccta caaggtgagc gtgagcacca agctgtacga tttcatccac cgcctatggc 180

tgaacgagge gccagtaggt gaactgcagt agatgatgat catataaaag aagtcttggg 240

tcatctgcca tacagcagca attcatcgaa gaaaattaga gctcttctgc acaacatcaa 300

cagttgagcc catggcagga ttttgctccc caacttttca tctctaggca ccgggataga 360

ggcagggttaa tcaggttggc tagtttatac gtcccttaat tgggggggatg ctatacaca 419

<210> 55165

<211> 70

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H7

<400> 55165

atcacatccg gcggctaaat ccaacgccct acaaggtgag cataaagcac caagctgaac 60
 aatttaatcc 70

<210> 55166
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H8

<400> 55166

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 gagcagagcg catagcccc caacctcaga tcaatccgca gcatcgatgg cgccaaggc 120
 ggagaaaaag ccggcggcga agaagcccga ggaggaggag cccgcgacgg agaaggcga 180
 gaaggctccg gcagggaaga agccgaaggc ggagaagcgc ctccccgcgg gcaagtccg 240
 cgccggcgag ggcaagacgg gcatgaagaa agccatgaag agcgtggaga cctacaagat 300
 ctacatcttc aaggtgctca agcaggtgca ccccgacatt gg 342

<210> 55167
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H9

<400> 55167

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 tgggtttact cacgcgtatg ggatccatgg gcaatctaata tagacatta gcgtggcatg 120
 accaaggacc aatcgcgagc ctctgctcac acgaccacta atgccaaaac acacgggtac 180
 gtaggagcct cacataaggc cggttccttg tgagtaattt atgtatatca ttaatacatt 240
 ctcgt 245

<210> 55168
<211> 184
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-037-Q1-K1-A1

<400> 55168

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gtcggggctc cggctcacct cggacanccc caaaaaaat ctgcgctggc cgccggcggc 120
caccaccata actgccatga tcagcatcct cgcgcaggac cgcctcctcg gggtcgcctt 180
gggt 184

<210> 55169
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-A11

<400> 55169

cgcctgctgt acctgtcctt attcccgttc gtccccgcgt ccgcccggtt tggctgtagc 60
atgttgtagc atgagaaggc tattttgtca aaaaaaaggg gggggaaaat aaaaaaggag 120
ggggggaaaa atataaaaaa taaaaatatt attaaatggg ggggggtttta atattatcca 180
atatttatatt aacggtaatt caaaattatt tactttcttt tttaaaccct taattctatt 240
aattccccct ctttttccaa ctttttggcc tcggatttcc ttgtgtttcc cacctttttc 300
ccctttcaac actttccctt tttttttttt ttccctttaa tctaattccc ccccccggtt 360
ttttattacc aacttttttg aaaccctttt ttccccctt atttatectt ttttaccctt 420
ttttcctttt ccgtttttgt tttttttaca taattttccc cttttttttt tctttt 476

<210> 55170
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-037-Q1-K1-A12

<400> 55170

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 gggttaataa aaaagaagg gggggccgct attaataatc caaacttaca taccggttca 120
 taaaaatatt tagctcttca atagtgtcac ttaaatttaa ttaatttgcc ttctttttac 180
 aacttcatta ctttaaaaac cttttcttta ccaaaattaa taacctttca acacattctc 240
 ttttctccag ttgtcatatt aacaaaaagg cccacaccat tctcccttcc taaaaatttt 300
 cacatcctta atggctatat ttactcccc tttaccttca ctttaatccc tataattttt 360
 tttgtttact ctcattttt 379

<210> 55171

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-A2

<400> 55171

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 gagtagttcc tgagctctac gaggtgggg acagatggcc tatcaatgct taccatcttg 120
 ctgctaaaca tgggggtgcga tgggatgacg actgggtgagt cgatacatgg caaagattct 180
 cgatgcgcaa cgagattcat taccaatttt tgtcgttgta tcgcagtcag ctgtacaata 240
 tgccttctgt aatcggcctg atcaatgact ttcaaggaga catgtaaaca tggtttcttt 300
 cctgtcctgg taactg 316

<210> 55172

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-A3

<400> 55172

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 gctgaagctc cagaggagaa agaggaggac atggacaaga ggccacctca gcgcagcaga 120
 ttatggagcg gaggagctta cgactctgat acagaggatc ctgacagcct gaaaagcgag 180
 ggtaaagacg taactgctaa cttccagatg aaggatgaac caaaagatga tctgtagaag 240

tttcagaagt gcccccaaag ttactgagtt gtcaatggga tcgtcgacat gcatgttgaa 300
gagtgggggac gcatctgaac ctgtccgtgc tgatatctgc cgctgtgcat ctgtaacaga 360
ctgaacg 367

<210> 55173
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-037-Q1-K1-A6
<400> 55173

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gaagggtgctt gtatcgggtgc atggcatccg gctaggggtct cctatacggg tgcccgtgct 120
ggtcaaaatg ggtaccacca ccgcactgag atgaacaaga aggtttataa gatcggcaag 180
gctggacaag agaccacga tgcctccaca gagtttgaca ggactgagaa ggacatcact 240
cccatgggtg gcttccccca ttatggtatc gtgaaggggtg actacctgat gatcaagggc 300
tgctgtgtgg gtccaaagaa gaggggtgtg accctccgcc agtccctcct gaagcagact 360
ttccggctgg cgcttgagga gatcaagctc aagttcatcg acacatcatc caaatttggg 420
cac 423

<210> 55174
<211> 344
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-036-Q1-K1-H11
<400> 55174

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acacagagtt taggtcgctt ctaatcagat cacaggcatg ccataaggta ttccacaaaa 120
ggatgccgcc agaagctggt gatctggtct ctcgggtact ccagtactcc ccaaactctga 180
gatgcactgc tatggaggca cttgttcacc cattctttga tgagcttcga gatcctaata 240
ctcgccttcc aaatggtcgc cttttgccac cactaattaa tttcaagcct taacgactta 300
aaggagtccc attaaacatt gtctcgaaat tgatttcagt actt 344

<210> 55175
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-A7

<400> 55175

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 gggtcctaaat cacatgcggg acggcaaaaa aaatctctct ttccttcagc tgcactacc 120
 ataactggcg tgatcagcat tctcgctcag gagcgctcc tcgggttcac cctgggttcc 180
 gcctacatag acaagattcg tactctacca tcgcctgcc atctaccgtt aaatctctga 240
 atccaacggg tcgcctact ttaccaacc tgggtgaaatt g 281

<210> 55176
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-A8

<400> 55176

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 ttccctgtgc agtctgctat ctgtacactg gaagatgtag atgttatcaa ggaaggacag 120
 gctaggattg ctggatatgc actttcaggt ggtggccgtg gcattgagag agtggatgta 180
 tcagctgatg ggggtaagac ctgggtcgag gctcgtagat accagaaaga caatgtggcg 240
 tatgtgtcag atggacctca aagtgataag tgggcttggg ttctctttga ggccacatta 300
 gacgtaccag cgaatcctga gatcgtagtt aaggcgggtg actcagctgc anacgttcag 360
 cccgagaagg tagaagacat atggaatctg aggggaatcc tcaacacgtc ttggcatcgg 420
 atcaaaat 428

<210> 55177
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-037-Q1-K1-A9

<400> 55177

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gcttcagaag taagaactca tggtcggcca ctggatgcta gcacagcagc ccacgtggca 120
ggtcctcaca gtaacaggcg agctacagtt gtgcctgaag aggtttcaga tgaaggagtg 180
ttccgctcgtt ttgtcagact acttctggcc ttcatgtca aagtctttgc cttctttcac 240
atagtacgta gtcagcagga aacgagggtc aacaacctac tacctcctgc cgaaccagaa 300
ctgattttctg acgatcatcc ggtagtagag actttcaatg tagaccacat cagtcctgtc 360
attagagcgc cttcagagac ttgaanggaa ggtcgtatgag cttggcagca agcctccagc 420
gattcct 427

<210> 55178
<211> 155
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-036-Q1-K1-E1

<400> 55178

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tgctaaccaa tgaaccacag aaggcttttag ttaaccacat tccaacgaa agttgactga 120
accaaacac ctttgccgaa tttcctaaac cattt 155

<210> 55179
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E10

<400> 55179

gcgggccacgc tccaactcca gatcactctc acctcaacc agacaaacca atgcaagcct 60
agatacgacc atggacacca caatcacgc agcaagaaga aacaaaaaa acaagctac 120
cagcatcaaa cacctcaacc caaaaaacaa gcacaacca caa 163

<210> 55180
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E2

<400> 55180

aatttcgagg cggactcggt cgcggaggcg tgggaaaatt taccgagcta tttagtgtaa 60

ataaaaaaac caaaaaacaa aggaagggtt tttt 94

<210> 55181
<211> 249
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-036-Q1-K1-E5

<400> 55181

ggacggcaga atgcaacgtg agtatttcat cagtagtggtg tggagctcag gacctatcat 60

ggagcgattc attgcccgtt cgtcctgccg ctgacgaata gcaactgact cgctggtaac 120

gcttctacca gtttatgtac ctccctcctn acctataaac gtgtgcccgg ttacattttc 180

cttatatccc gaagaccctg atgccagagg atagatacgc cgaccacgtg gtgcctgaca 240

atatgactg 249

<210> 55182
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E9

<400> 55182

cccggccgac cactcgtcc gatcgcgcgc gtccagccta aagtgccagt tacttacagg 60

gtaaggctcg acacaaccgg caggattcca gagatggaaa ggtgcacaca acattgctaa 120

aagttga 127

<210> 55183

<211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-F10

 <400> 55183

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 cccagtacga ccaacagcga ggacaagaca actacgcgac cagaaaggca ggaacacgac 120
 gccagagcgc ggacagacat gacgcgacgg ctgcactgca cccgcgcggc atctctccgg 180
 tccggagcac gcaagcgcag gcggcaggtg tgagacgccg tgccgcctaa ccgactggtt 240
 gctttctatc tcctcgcggg tcgatcgttc 270

<210> 55184
 <211> 170
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-F11

 <400> 55184

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 aacctacacc aagtcagctt tatatagcac aatggaagac ccatactcac actcacactg 120
 acggctccac gactcaccat ctctgcctga catcacataa cctcctcacg 170

<210> 55185
 <211> 274
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-F2

 <400> 55185

 gtggacgtcg ctgatgatcc cgcccatcgt gatctagatg gtgaacctga tcggcatcag 60
 tgggggggttc agccgcacca tctacagcgt gatccgcgag tggagcaagc tgctgggcgg 120
 cgttttcttc agcttctggg tgctggcgca cctgtaccg ttcgccaagg gcctgatggg 180
 gcggatgggc cgcacgccga ccatcgtctt cgtctgggcg ggcctcctct tcatcaccat 240
 ctgcgtgctt gtgggtggcc atcaaccgc cgtc 274

<210> 55186
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-F4

 <400> 55186

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 accactcccg ctactagtat agtactaggc gcctccacct ccacggcggt ggggtgtttct 120
 cgtccgttaa tagctcgggt tgctttgctt gtgtttgtgt aagatataca ttagttaagg 180
 gcaataagct tgtactatta tgagtggcgg ccgaggagta cagtacgttc tcctctgtcc 240
 gatcatgccca tcattaacat taattaatgt gggagat 277

<210> 55187
 <211> 118
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-F8

 <400> 55187

 gacccactcg tccggaagca tcataagcgc cacaaaaact aaactaaaaa caaaaccaa 60
 aaaaaaaaaag aaatgaataa aaaaaaaga aaacaaggca aaacaaaaa acaaacaa 118

<210> 55188
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-G10

 <400> 55188

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 gttgatgtca atgaacaccg atttgatgga ccaagaacaa tcgaagaaat cgttccggtt 120
 ccattggatg agatccagat ccatgaggat gtcccagggc aaccgggagc agccgatgag 180
 atagatgagg tcccattttc tgacgctccg atcattggtg ctccattcag actgatctca 240
 tttgttgcta ggtatgtcag cggcgcta at ttggtcaacc aaagataact gtctgcatac 300

caggaattca ggacttctat gtca 324

<210> 55189

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-G11

<400> 55189

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ggagcttttt ttcaccgact tgaccggtga cagcatgtcg agcatcttct acgccaaggc 120

cgggattgcc ctgaacgacc acttcatcaa gctcgtctcg tggtagcaca actagtgggg 180

ctacagcaac cgcgtcgtcg acctgatccg ccacatgttc aagaccagt acgctagtat 240

agagatagat ttctgcctcc ctatcgtggg tcgtcccaa tggcctttgg tcgcatacca 300

tctttgctgc tttgttatgc ttat 324

<210> 55190

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-G5

<400> 55190

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gagaaaataa aaagaaaaaa aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaacggaac gacgacaaga agaagccac 159

<210> 55191

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-G6

<400> 55191

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atccgtgcgt cttgtcggct gccatgatgc tgcgcgcggc gggcaggcga ctccctcggcg 120

taagaggcgg cgatccagcg cccgcggtcg ctgctgctgt ggcggcgagc aggagcagag 180
gataccacga gcgggtggtg gaccactaca acaacccgcg caacgtgggg tccttgga 240
aggacgacac ggacgtcgga acggggatcg tctgcgcgcc tgcgtgcggt gacgtcatga 300
agc 303

<210> 55192
<211> 306
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-036-Q1-K1-G8
<400> 55192

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aagccggcaa agggcgagac tgccaagacc accggccgga gcgccggcca aggccagccg 120
ccgccaagtc aaagaaggca gccaccgcca agccaaagaa ggccgctgcc gccgggacca 180
agcgcaaagt gcccagagac aaggctgggg cgaagccaaa gacaggcgcc accgggaagg 240
ccaaggccaa gccgacgacc gcgaaggccc cagcctccaa gaaggcacgg aaggcctcca 300
catgag 306

<210> 55193
<211> 228
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-036-Q1-K1-G9
<400> 55193

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gatagaatag gggccggttt cctaggacgt gctgaggtag atgcttctgc ggtggcgcc 120
acagacgaaa aggggcagaa aatgcatacc taacatccgc tcgttgccct aggtgtgtac 180
ccacatgtgt atcgatgaca taggcaggct gatgaataat catcaggg 228

<210> 55194
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H10

<400> 55194

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tcgactttac ccagcagcat gccagccagg cacaactag tgaaggacgc acgggaccga 120
ggctgctacc gctaaaccag cgacgatggg gatccgacga atgcatgcat aaacgccatc 180
atagatcaca acgatcccg 199

<210> 55195

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A12

<400> 55195

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aaacagacag gttcaaaca aaacaaagcc cacccaaaaa aaacaccaa aaaaaaaca 120
acaaaccaac aaaaaacaaa caaaaaaac aacacccaac caaaacgac ccacaccaa 180
accccccaacc accacaccca aaaaccccc aaaaaccaca aaacacaaa ccccaaacca 240
caacaccaa ccaacaa 257

<210> 55196

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A3

<400> 55196

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tgagctcacc cacaactggg gcacggaaaa tgacctgaa ttcaaagggt accataatgg 120
gaactcagac cctcgtggtt ttggtcatat aggagtaact gtggatgatg tccacaaggc 180
atgtgaacgc tttgaacgtc ttggggttga gtttgtgaag aaacctgatg atggaaaaat 240
caaaggcatc gctttcatca aagatcctga cggttactgg atcgaattat ttgaccagac 300
cattgtgttg gtgcttttcc agcatcttga tgaacagttg tggttcctta tttggt 356

<210> 55197
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A4

<400> 55197

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 gcagggattc atgggggtgg cgtgccgcaa tagccagccg atgcccgtct actccagcct 120
 gtggaacgcg gacgactggg cgacgcaggg cgggcgcgtc aagacggact ggtcccacgc 180
 cccct 185

<210> 55198
 <211> 208
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-036-Q1-K1-A7

<400> 55198

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 gtccttgccc cttctctgt ctctgggtgg gaggataggt tagtcgttgg attaggttgg 120
 ggagcgggag gtcggaggag tagttaggta atctgtcta gtccatcaat caacgacgtg 180
 tttcattatc tctaataagg ctatcgat 208

<210> 55199
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A8

<400> 55199

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 ttccactgcg gtgtatgttt acctctactc catatattat taccacatga agaccaagat 120
 gtctggattc ttccagacca gcttctatct cggctacact ctaatgttct gcctaggctt 180
 aggaacacta tgcggagccg tcgggtatct aggatcgaca ttgtttgtga ggaggatcta 240

caggaacata aagtgtgact aagtgaagat aatatcgccc cattttgggt catcgcatag 300
 aaaatgtatg gcatagcctt atttgattga gcgatcactg attctaaa 348

<210> 55200
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A9

<400> 55200

cgcagccaaa gttgaaagct gagttggata caccaactct cttctaaggc cctgcatatt 60
 tccacaggga aggctgtgat atgtttcttg aaagatgacg actcagttcc tgttgctgat 120
 gattggggag gttgtgttgg tattgttcac cgtgatgatt gtaccttgat tgtaccaagc 180
 tggatgcacc tcttcttctg cctacttcaa ccaccgtgga gcacgttatt gacctactcc 240
 ttagggagaa atccgagatg gtgggtggta agagcggtaa catgtacgaa ggcagcttat 300
 gacccttggg tattttttt 319

<210> 55201
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B12

<400> 55201

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 accaagctcg acttgctaga gtcccaggcc atcttatccc taactgcttc cctgaggatc 120
 aatggagctc tgaacgtaga cgaaaacaag ttccagacca acctggagcc ctaccaagc 180
 atccacttca tgcattgcac caacgctcca aacaaagctg actagaaggc ccacaaccaa 240
 caacagtcac agagccaaaa caac 264

<210> 55202
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B2

<400> 55202

gcaacgactg gttcatcaac cagcgggaagc ggtaccggaa gccgtcggag gagatgcagt 60
agcccggttt tgaatggggg caggcggggc ttttttaccg ccgccgagtc ctacttcgac 120
ccaagcttcg tggtagcaac gccggcaaag ttca 154

<210> 55203

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B3

<400> 55203

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acttgtaata gcctgtgcag tgtaaaaata agtattaaac cagccgctta gaaccatgtt 120
tgctttgtga ccctagaaac cagctaggca caagcagcac ctcgggcccc tctcggcgca 180
gacgtctact ttctcgaggc gtacagtgc cgttcacctc tcgggctgctc ctagctcgtc 240
atcgggtctcc aatgccacgt tcgtgctact actccaatcg ttgctgacctc gggatgatctc 300
cactgacttc cg 312

<210> 55204

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B4

<400> 55204

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ctgagctccg ctgctagaga aaggcccgat tgttctaacc ctgaaggaac tgctaaacga 120
catcgaaatt caaaacccga agtacaagag gcaccgccgt ctactcgaac cgagtcaaac 180
agac 184

<210> 55205

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B5

<400> 55205

gctcatctta cttatttgta atttggtaac tctatttttc cagaagattt ttatttttct 60
aagagagaat taactaattt ttcttagtaa aatagaaatc ccttagaaaa atgagggtgc 120
caaaccagct cttaaaaatt tgcctacgga ctctgttcct ctgttatttc ctgcttgcta 180
tcggtgtgat cggtatacct taaactgatt gtaagttatg ctttagagtg attgtttatg 240
aacaaaacta gctacatttc tgactgctgc at 272

<210> 55206

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-036-Q1-K1-B7

<400> 55206

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aanaagttta gcagcaaaag cggcgccatt tatcgagaag atgatagagg atcctcatgt 120
taatgcacga ctgcaacagg acttattggc agatgaaggc gagaccccga gtttatttgt 180
ggtgtc 186

<210> 55207

<211> 154

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-036-Q1-K1-B9

<400> 55207

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accaacgaag acccggaac ccaaaagcaa aatcacagca cgaacaacaa caggcactca 120
cccgacaaga ccacaacaag ctaaaccga acaa 154

<210> 55208

<211> 182

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-C11

 <400> 55208

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 tttgctacgc gtgcgtgtga gggatgatc gagcgccggc cggcctgcac ttccgccgtg 120
 ttgtgcgtac gtacgtacgt atacatgtat gtatgaatat gcccgcggtg gatgcacgaa 180
 ta 182

<210> 55209
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-C2

 <400> 55209

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 ccctcatgct gcgtctcgcg tggcactccg cggggacgtt cgacgtgtcg tcgaggaccg 120
 gcggtccctt cgggtactatg aagtgcccg cgggaactggc tcacggcgcc aacgcggggc 180
 tggacatcgc ggtgctggctg ctcgagccca tcaaggagga gttccccacc ctctcctatg 240
 ccgatttcta ccagcttgcc ggagttgtgg ccgtcgaggt caccggtggg cctgagatcc 300
 ccttcacccc cggctgggag gacaagcctt agccgccacc tgagggccgg cttcctgatg 360
 ccaccaag 368

<210> 55210
 <211> 189
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-C3

 <400> 55210

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 gaaggatgcc aacggacgcc tgcaggcgac ctaaaagccc accaagaggg ccaccaaaca 120
 gcaaagcacc ggccgacggc caacaacgtc acgacagaaa aaccgccgga gctacccaaa 180

taaaccgcc

189

<210> 55211

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-C4

<400> 55211

gtccggtaga ttcgcgactg gtttcctcta gggccttagtt ctgttggcaa ggcctcaatt 60

tagcgagatg tttagtcatg agttgcgcac acactatacc aacctcccaa gtacaaagca 120

taccagtata ttttgtgggt agtggcactc gtctagctgt ta 162

<210> 55212

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A1

<400> 55212

cgctccgcca cgcgtccgcg tgtcagtttt cgccgtcatg ctagcgacag ctctggtcgt 60

tatcagcacg aaaaggcctt acagcttgtc gtcgagggaa aggggaggag gaggc 114

<210> 55213

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-D4

<400> 55213

gttcgctgag aagcccgagg tccgcgatgc tgccatgagt tgctgctctt cgtgagatca 60

aggaagtcag ctttaagacc aaggatgaga agaagtcgat aaaggctgag gtgaccaagt 120

cccagaaggc acagacgaag ggagcgggtcc agaaggggtc caag 164

<210> 55214

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-D5

<400> 55214

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tctgacttag catgtgctga aatgtccaat atatagcatg gattacttag attttgaatg 120
tgctcaacat gctgaatcat catagatatg cactgctgag tgagtttgca tgtgttacct 180
aattcctaac gcttccacat tggccttcgt atgcttgcag ctctgatctg gagctagcta 240
tatcacttca acagcaagag tttgag 266

<210> 55215

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F2

<400> 55215

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cgaagactct tcctgccgtg cgctcgctgc aggttgccct tggtgcaatc tatgcttagg 120
taaagaagaa ggcgtcgagg cggatctcca ggagtttcgg ggctttgatg agttcgagga 180
ttaggctagc gactaccccc agtcagctgc ctgtgggtggg tttattttacg ttggctacgt 240
ttctatttct ggtactttga ttatattatg ttaattgact ctagtctttt atattattac 300
ttactcttta ttgtattcga aagcattgtg ctatgatgag tcattttattt aaatctcttg 360
t 361

<210> 55216

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F7

<400> 55216

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catgcttttg tcgggcttct tcaaaaggag agaggacttt cttcatgaca tgatggcatg 120
tgaggcatct tcctttttctc cgcaaccctt gtcatggcct 160

<210> 55217
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F9

<400> 55217

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 attatcgcggt tagactagtc cattgctaac tgactacatc atcgactcag gtgatgctat 120
 cgcacatcaa gacaaatgta gccactgagc cttgatcgat ccgggggttg gtgtggaggc 180
 aatgaatact cttagtgggt attctaacag gagatcatac actacacttt atatgggaac 240
 tggaactgag ggtgggatta caagtgctag aatcagggtg ccaaattgtag gatgtgaagg 300
 attcatgtgc tcaagtcac tgtcaatcac tcaaagaaat tcaagattga tccattctac 360
 ta 362

<210> 55218
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G1

<400> 55218

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 ggggtcttttc aaacatgggt ggtgcatatc aacaataaca gaaagtttgt tactcaattt 120
 attcatcttc ttccaactga tctattatct tacacttcag t 161

<210> 55219
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G5

<400> 55219

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 tgtgttccaa aagcaagttg aggagcaata tctctcaa atgtggagaggc agctggagag 120

gatccagaat gcccggaacg ctcgaaaggc taacgggcat gctaacatgc aagaaatgga 180
caaggagctg gacacacaca gggcggagca tgggtccgaag actcggcgag ttcttgagga 240
gggcgggttat gatgactact aatactctta ggacatggct gcttaagact aggt 294

<210> 55220
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G8

<400> 55220

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gtgacttttt acagcatcgg cgtactaagt ggctcacaat ctatacaaca ttaactctct 120
tgattcacga gtttgttgat tgttacgata tgccctttga ttcaagataa gaacttctga 180
acccttacct ttactttta 199

<210> 55221
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G9

<400> 55221

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ccgggtttga ttgctttgtt tgatgttgat ggaactctta cagctcccag gaaggtgggc 120
acaccggaga tggtgacatt catgcatgaa ctgcggaagg ttgtaactgt tggagttgtt 180
gggggttctg acctataaaa gatatcagag caacttggca gcacagttac caatgactat 240
tattatgtat tttctgagaa tggctctgtg gctcacaagg aaggaaagct cattggaact 300
caaactctga agtcattcct tgggtgaagaa aagctcaagg agtttattaa ctttacacct 360
tattatatt 369

<210> 55222
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-H11

<400> 55222

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gagcttctgg tattcagacc atgccataac ctcacatggg agaggagcag tgaccgatag 120
cgccaccagc aggctgagag aagtgcagtt tgacagatca tctacaccta gtcgtggcca 180
cactgatgtt tacttctggg tagc 204

<210> 55223

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-H9

<400> 55223

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tcatacctcg cctggatcga aaccataggc gcatgacgaa cgcacatgct caccagaacc 120
acgtcaaccc aattctgctc tgcgtccaca ttaacctggc catggcaatg tggcaccagc 180
actctggacg agcatggcag aactgggact gcacacat 218

<210> 55224

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D3

<400> 55224

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accctgactg gtactacatc agggctgcat ctgtagcaag gaagatctac ttgagacaag 120
gcattggtgt tgggtggcttc cagaagattt atgggtggccg ccagaggaat ggctcacgcc 180
cacctcactt ctgcaagagc agtggtgcca tttcacgcaa catcctccag cagctgcagg 240
agatggggcat cattgatgtc gatcccaagg gtggacggcg catcacctcc caggggaaggc 300
gtgatctgga ccaggtggct ggaaagggtg ctggtgaagc ttgagcaatc tcatatttgg 360
tttctatgat gtcatgtttg attgttgaga tggctacact ttatttgcac tttggattat 420

gaattttt

427

<210> 55225
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D5

<400> 55225

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cgagccattt gatcgattcc tgatggcgcc caaggccgag aagaagcccg cggagaagaa 120
gccggcggag gagaaggccg agaagaagcc aagggcggag aagcgcgtgc cgagcaagga 180
gggcggcgag aagaagggaa agaagaagcc gaagaagagc gtcgagacgt acaagatcta 240
catcttcaag gtgctcaagc aggtgcaccc ggacattggc atctcgtcca aagccatgtc 300
catcatgaac tccttcatca acgacatctt cgagaagctc gccgccgagg ccgccaagct 360
cgcccgtac aacaagaagc ccaacattac cttccgggag atccagacct cggtgcgcc 419

<210> 55226
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D8

<400> 55226

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ggaccaattc acccctctgg gccgaatgct ttacaaggca ccatctgatg ggaaatgggg 120
ggagcatgag ctcgactacc tgctgttcat cgtccgggac gtgaaggtgc agccgaaccc 180
agatgaagtc gctgatgtga agtacgtgaa ccgcgaggag ctcaaggagc tcatccggaa 240
ggctgacgct ggctaggatg ggggtgaagat ctgcccctgg ttcaagctgg tagtggacaa 300
cttaccatg ggctgttgct accatgtcta gaaaggcacc c 341

<210> 55227
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E11

<400> 55227

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gtcgaatcct ctgacgcagc atgcgtcaaa tggcggacgg aggggcctag gcatcgccgc 120
tgcggccccg gcggcgcgtc ggctctaggg acgagcttat aatattgtgc cgcataatcg 180
atcaagacag gctcgccctc cagattccta tgatacacgt ttatcgtaac caaccatcaa 240
tggcagagaa agaccagtt caagtgttc ggaaagcact ggcaaaaaca cttgtgatct 300
attacccttt tgcgggtagg ctttaaggaga ggctgacca caagttaatg gtggattgta 360
ctggagaggg cgtcttggtc attga 385

<210> 55228

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E12

<400> 55228

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ctgcggctta gggatttgag caggggtcaat caggaactac ttgttcagac tgaagagctt 120
ctacagaagg aggcgaatga agacgctcag ttctgtacac aatttgggag tcgttggact 180
agaccttaat caagcaccct aactaagaac attcaggata gattgaatct gtttgcttct 240
aatctgaaga aagctgctga tagtgattct ctgattgaac gaggcgtgaa tgagaact 298

<210> 55229

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E4

<400> 55229

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ggcatctggc aagcctaatt tgcttactct tgattatggt aacatcagtc cattttccct 120
tccagcaaga aggacaaagg aattaagagc tttgattgga tggaggtatt acttcagctt 180

attcttagag ttgtcagata ttgcatgcc cttcataagg gttgctatca gcaaagtgag 240
ctctgcggtg tcttacttct ggggtgcaat gattggaagg tctcttgggc tgatcttctc 300
agggattaga caatcactag gctggaaata agcttatagc gtcatactg ttgagttttg 360
agtctgactt ctgcgactga atgaatgtct gttaagttat gcattgtaaa tctttgagat 420
ggctgtcaaa aataaaaatt tt 442

<210> 55230
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E6

<400> 55230

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caaaaaaatc tatcttaaata ctaaagcaga attcttaaaa attgcttgcc tatcacataa 120
ttattttata cacaacatta ttccctcaac ttacttttga ttcaatctta taatctacta 180
tattctctta acaaattcta ttctttttct tta 213

<210> 55231
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F10

<400> 55231

gagtttagcag caacacacaa tatttatgga caagcacaat ttccacattg ccaatgaagt 60
acctctgcct ggacggtagc agtgggtccc agtactccac taggagtgtc atatggtgat 120
aatatgggat tacaagagcc attagactgg tattttaaat ctaacaacta gaagaagctt 180
tgactaacca tttagattgc ttgaggctct tggttaacaa gtttcaaagg aaacgaactg 240
tttagaaatt tccaatatcc gattagtaga ccagtagtgt ctttctgata tgaaagggtg 300
accggggggg 309

<210> 55232
<211> 178

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D11

<400> 55232

acccaacact atcttcaact gttctcaact tcaagatctt tccctctcaa acaatgttat 60
 ctcaggcaaa ctacctgagc taattggctg aatgacatac cttaaactg ctaacctgta 120
 tgacaatgcc tttgcccggt tgaacccgga aaacctctc tactctacca aaccttaa 178

<210> 55233
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B3

<400> 55233

aaaagtcccc ccaactcgcca gtcgcagcag cacctgtagc catggacgcc agcggagcgt 60
 gtagcatttg gaagaagggg gcgccggggc gcaaggcagg cggccccagg aagaagtcgg 120
 tgacgcggtc cgtcaaggcc gggctgcagt tccccgtcgg ccggatcggg cgctacctga 180
 agaagggccg gtacgcgcag cgcgtgggca ctggcgcccc cgtctacctc gccgccgtcc 240
 tggagtacct tgccgtctag gttctggagt tggcttggaa cgc 283

<210> 55234
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B7

<400> 55234

ttctggtgtc tatttgcttc tgagtttttt tctttttata tggttgctat ctctggtgtg 60
 tcgtttggtt agcatccaag ccaggctatt agtacgataa atgtcgtcta taaacatgtg 120
 ttctacggt gccacatgct gagtcaatct gtatacatct agctctatgt ggtcagcttc 180
 gtttaccaca aatagcatac atgtattgat atatcttctt tgaaagcatt ctattaataa 240
 tggttgtttt ctttaataa tattaataag tgctattctc tctaaaataa tctattctta 300
 ccttactctt ttctttctta ttttaaatct ctttattatt tttattttta ttttatatta 360

tttttttccctt tttttttacaa tttttttttat tttttttat 398

<210> 55235
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B8

<400> 55235

tgcaagttca tttacagtgg ataatagatg tacattgtgc tggagcgttc gttagcttgg 60
gtatggtagg tgatcgagag cagtgcgtgtg taatataaat atactcttgt tgttcaccgt 120
acgacgtaca gttgctcttt tgtagcactg atctcgtttt tcattcatat gtaatctcta 180
attcattcgt aaggctgctt tcaagttcc 209

<210> 55236
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C10

<400> 55236

gactccacgc gacgggctcc aagccactat ggaacgaaat ttaaccgaac aagcccacaa 60
gtggggagggg atcacacaga gtggggccata gcaactctat ctggggcgcca cccgatgagc 120
cactgcgtcg cgacgcagat accgaaagca cctgctgaac gagaccatgc atgcggaaag 180
taagcccaaa ggtgcacgag tatagctctg ctgaaaaaat acatagatgc aaggactccc 240
aacctgtgaa accattcaag 260

<210> 55237
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C11

<400> 55237

cggaagggcc ggctcaatcc acgcgtagga gccacctgc acagacctac gatcgaatcc 60
gagcacgacc aacacgggag agacgcttcc atggatgcta gcgaaacatg acggcaagca 120

accgatcaag actagtctac ccaggccgct agactgctcc aaggctctat acaccgtgga 180
tactggacaa attgatccag cctttgggtcc tcaacacact tcacaggaac acgatctaaa 240
gacaacccct gaaatctcaa accaagcatt ctcagcaaag cctcaactat accatgaaag 300
gg 302

<210> 55238

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C12

<400> 55238

ccgacgcgtc cgggcgagga ccatatattg gtgggtctagg aggaatatcg ggggggggtg 60
acatgcagat ggcactttct ctccgcacca tcgtattctc aacagcgccg agccacaaca 120
cgatgtactc atacaaagac gcagataggc gtcgggagtg ggtcgctcat cttcaggctg 180
gtgcaggcat tgatgccgac agtagcccag atgacgaaca acgtgaatgc gagaataagg 240
ctgctgcact agctcgggcc atcgatcttg cagagtcagc ttttgtagac acagaatagt 300
gtgctatggg tatcgtttag gtcttgcctca tgtgtctttt actcactttc cgttaaaaaa 360
agatggcatt 370

<210> 55239

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C2

<400> 55239

cggacgcgtg ggtgcacaga gagttgcatg acataaagcc actatacaaa catctgcatg 60
cggcccacca tatttacaac aaggagaaca ccttgtctcc gtttgcaggga cttgcgtttc 120
accactgga tggatattctg caagcaatgc cgcattgtgt tgcgtctctc ctcttcccaa 180
cgcaattcag gacgcacatc gctctcgtgt tcttggaggg cgtgtggacg acaaacatcc 240
acgactgcat tcacggcaag ttatggccag tcatgggagc ggggtatcac accatccacc 300
atacgactta ccgccacaac tatggctcact acaccgtctg gatggactgg atgttttggtg 360

cgctccgtga gccagatgat atcctcaaga aggcctgagt tcgtcgtagc tgtgggttttt 420
ctactgtgct ggatgtgctt ggtctgttct gt 452

<210> 55240
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C4

<400> 55240

agcgagtga tgagccgctg ccgccagccc tccgactgcg gcctcctccg cgaggactat 60
cgggagtgcc tccaccactc caaggagttc cagcgcagga acaggatcta caaggaggag 120
caacgtcaga tcagagctgc tgctcgtaag gccaaaggagg aagctgaggg tgcccctgct 180
gttgacgac accattagtc tccctgtcta ttttttgtgt tgttgttttc tgttaactca 240
tctttggttc agttatgatg ctaagggcaa ggcaataatc tccagctggt ggactacaca 300
gatttttttc cccatgactt aaatatcaag actcattttg tgct 344

<210> 55241
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C6

<400> 55241

cccacgcgtc cgcgagcgcg tgggccgtcc tgacctcggc tccccggggcg gctgctcccc 60
tcgcaccaca caggcttttcg gcaactctcc gccctcgcca tggccatgac cgtggcagcc 120
gcctggcttc cgtcgaccgc ctctcgccgg agaatttat cctctccgct ccctccggtc 180
gcggcccccta tctccatcca catgccacgg ctggcgccgt ctcccagtc catccatcga 240
aagccgcgcc tcttcgtcgc ctctcgccat ctcgatttct ccagagctat tcaa 294

<210> 55242
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B12

<400> 55242

tgatcaattc acacatatag gatggacact tctgacgtgc gggataccag ctgattatgt 60
ggatcagcac taacatacac atattcaciaa caaagatggg aatgcacctg ttgaaagtgt 120
tctagcatcg gataatctac ccagaagggt caagagtctt tctatatgga caagagactt 180
acatgttgta aaaccaatc tgttgcgag ttcaaggatg tacgggacta cattttgtca 240
gaatgcccga ttgaactttc aactctctta tctgagggtca aacaagaacc attcaacctt 300
tctgaccact atgaatgggt tacttgtgac ataaactttg 340

<210> 55243

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C9

<400> 55243

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ctactggcag cagcatcaga atcacaaaca acaatggcca acactaactt ggaagatgtc 120
ccctctctgg atctcatgac tgagctcctt cgtcgtctca cgtgctcttc caaacctgac 180
aagcgtctaa ttctcattgg cccacctgga tctggaaaag gcaccagcc accaatcata 240
aaagatgagt actgcttatg ccacttagct actggtgata tgttaagagc agctgtcgca 300
gctaagacct ctctcgggtg caaggctaac gaagctatgg atcacggaga acttgattct 360
g 361

<210> 55244

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D10

<400> 55244

cgggtcggcc cactcgtgcg tcgattggta ctacacctac atgctgatag ctgacgaggc 60
ggaaatcgga ggccaggttg ctaccatcta ggaggtgctc ctggtatcat gcaccagggtc 120
tactgctccc gagaacacga gcctacagac gcgctcacat gtcgagagct ccgtttgccg 180

cacaatacct caacgacact gtgccagaca cagtggactc accatcgaca gaggagtcta 240
atgaccggag atcatccagc gcactatata tgcgaactgg aactgtgggt ggaattacaa 300
accgctagag tcategtgcc gcctgtggga tgtgaaggat tccatgcact ccagtcactct 360
ggcaatcact caaagaaatt catgattgac ccattctact agcaagatt 409

<210> 55245
<211> 236
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-G6

<400> 55245

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gatgctancn tgggtgtgtg ggacagtgga ctgcatcttc ccttggcttg tacacatata 120
gtagtgaaca tgattcattt acatctatct tcttccacga acagatctta taccataaca 180
cactgaaaca cgteggagtc cggtcctctt tctaaaaaaaa aaaaaaaaaa ttaaaa 236

<210> 55246
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-G7

<400> 55246

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cttcttagat ccagagctcg gttcncctct tcttctctct ttatctttcc aatcactcct 120
tctcctaatt caccaattcc ttcaccaagt tcaactcttc ttattctcat attactattc 180
tcaattgttt ttttagacct ttctcaattt attcttttta tgtacttata tattatata 240
cttcttcttt tttactcctt tattttttat tatcattttt ttattttcct tctttatttt 300
ttattcattt ttttctatc actcttttct tttacttatt tattatcttt ttacatttt 360
ttctttctct tttcttattt ttttttttaa tcttttttct ctctcttttt tactttattt 420
cattttattt t 431

<210> 55247
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-G8

 <400> 55247

agaattctct tgtggatttt cgcacctggg cttgattagc aaatggctac agtttgttcg 60
 atgtttgtca tgtattttga cagtgcctaa ctttgtgttg gtttatgaag ctgtcctggc 120
 ggacaatggc aggctgaaat atattgaacg cattgcggag agatttgttg atttgactat 180
 ggaacataag gnggagatga aggttgtggt caggacagtt atttcactca ccaaggagga 240
 ggagaaagaa ctcaaggaaa ccttgcanga tctccttggg gaaaacaaaa ctatttttgt 300
 tgaacagaag attgactaca acatcatggg aggattagtg attgaa 346

<210> 55248
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-H10

 <400> 55248

gcgtccgaga aattcattta gcagaggccc aaaaacaagc ataccgtctt gtgaaaagac 60
 acagagaact tggacaatct ttggcggact tcngaaaggc gattaagctt ttgggctctt 120
 gtgaaggaga tttgatggaa aaggtgtttt ctgaagttag ttcaaagtca gagatgttgt 180
 caataaagct acaaagagag gcagacaacc ttctctttta ctttgaagaa cccttgaaag 240
 attatgtgcy tgctctacaa tctataaaaag ccactatgct ggatcgagct aatgctttca 300
 agcagcactt tgatttggat caagagaaga agtattaaaa gcttaatctt gaaaa 355

<210> 55249
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-H5

<400> 55249

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gggagggcca cgctnnacac nntataaatt acgtactttc gccaatctta ctccacatac 120
ttgtatactc atgtattaca cccatgctta ttgttgctct caaccactac tagcactact 180
atttgtctag ttccataatt acaagtacct ctccccctcat attaacttga tcattgtccg 240
tgtataatgg actatttgcc gaaaataaaa tatattacaa tccattcttt ctaacaaaca 300
aattgaaaca tctttaatt 319

<210> 55250

<211> 200

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-H8

<400> 55250

ttaaaaaaaaa aaaatcctaa cgtgggttttc ctttaaaagc tgggtggttg ccttcacctn 60
tttacatttt tagtctaggg ctcccttttaa attgtttgca tagtggctcg atttttttac 120
cccaaaacaa ttctcatggt cgtctgcac ttcttcttcc accttatcta tcaaccttat 180
gttcaccttc atctatatat 200

<210> 55251

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-A3

<400> 55251

gcgagccata caccaattta gggctgcccc aacctcacc tactacattc acgaaacctt 60
gcaccttctc aaaagtccag cgagcgaaag cagctccctc aaatgcacgg caacgactaa 120
tgcacattg ccaatcacca gaggaagagc at 152

<210> 55252

<211> 282

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-A5

<400> 55252

cctcgtagca gcagcaccag cagagtctcc ttctctctccg gcggcgatgt ctggggcgcg 60
 ggagtgctgc taggggctgg gcaaggggtgg cgccaagcgg caccgcaagg tgctccgcga 120
 caacatccaa gggatcacga agccggcgat ccggaggctt gcgaggagg gcggcggtgaa 180
 gcgcattctcc gggctcatct acgaggagac ccgcgggcgtg ctcaagatct tctcgagaa 240
 cgtcattccgc gacgccgtca cctacactga gcacgctcgt cg 282

<210> 55253
 <211> 359
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-E5

<400> 55253

taaaccaaatt tcaaagtcac agcggcgtaa ctctcgtcga tgtctggccg cnncaagggc 60
 gggattgggtc tggggaaggg cggcgccaat ctccacctca aggtgctgct tgacaacatc 120
 cagggcattca ccaagccggc gatccgcagg ttggcgagga ggggcgtcgt caagcgcattc 180
 tccggggtca tctacgagga gacccgcggc gtgctcaaga tcttctctga gaacgtcattc 240
 cgcgactccg tcacctacac cgagcacgcc cgtcgcaaga ctgtgaccgc catggacgtt 300
 gtctacgctc tcaagcgcca tggccgcacc ctctacggtt tctgcgggta tgcgcccc 359

<210> 55254
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-F2

<400> 55254

cactttgcta tgcataatat tgtttaagct caaacgccta ttatacgtgc gcattgcgag 60
 ccacccgtgc agcgacggtg tggctcgacc agtacaaaac tgcttcccat gtacagaatt 120

gcgtgaagga cagaaaatta tgatgatcac atttagcagc attgtctatt gcatgctgga 180
ccgctggagg catatttcag tccttcatgc agccagaata tgtccgtgac agacccaaaa 240
tcttgacgag cttattgaca ttcatatgcc accgagacat gatcactggt tactgtacac 300
caacagtatc taatcagtct actcaccctg gcaacctgcg cgtcaattaa ttaattcatc 360
gattgtttctc ttcaattaat taattcatcc attgaatcat tgttgttcaa ccccttctat 420
ttcccatttt ttttt 435

<210> 55255
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-F5

<400> 55255
gtatataaca tgtaccagct gaaactagat atggctgcac tgntccagcg aagcagcatc 60
aagagcagcg tgccacgac agaagaacct cctcatccac tcattcttag gctgctacca 120
ataggaatat gtatgtgaat ttaaagccat atatgaccaa ggaagaatgg gaggaagacg 180
aacaaagcta gctagactag actgcagccc ctctaattcca tggccattcg ctgattaata 240
cgataaatatc tcttatttgt tggtttcttc tagcttgctt caatttccta gtacagcagt 300
ttatgtagta tttcctagat tgtagcgca aagctgcctt tttcacccat ggcatccact 360
ctagtgggtg ccaggtagtg tcgatccaat tttagtataa aggtcactt 409

<210> 55256
<211> 504
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-F8

<400> 55256
cccgggccga cccactcttc ctcttactct ttttctcttt ctgccccct gttttttttt 60
gtgagncggt gattttcttt agttcaattt ttaaacgttc aagccgcgac tcttttnnct 120
tcaacttccc atccaccttt tccaatttct tctttatata cttttcctcc ttttctctaa 180

atccattttt ttttattttc tttctttcttc catatcccct ctccttattc ttcttcattt 240
tatatccttt tatatatata taccttactt tattcttttt attattcttt tctatatctt 300
attctttccc tttttctttt acttatttta tatttcattc tctatattta ttatttttat 360
tcctatttct tccttctttt tatcttatat ttctttcttc aattctttct actcattctt 420
ttttttttta tataaatttt ctatatttta cattttcttc cttattttat tctcttcata 480
tccattaatt attctatctt attt 504

<210> 55257
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-E12

<400> 55257
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gcatgcatat atgggggcga ccgcgtgtca ctgcaaaaag tcccactc cgattgctat 120
gctgtaaata attgccttcc ccgaagacct cccattcctt ccttgattaa aaaaaatcac 180
gagacactgc cattcaatgg tacaaaagac cgagcttgtg aatgtcaaatt ttctgcgcaa 240
ctatcgattc ttctgcttac aatatgcttg ttttaataca gctttacttt ctttttcttc 300
ttaagtactt ctccatgt 318

<210> 55258
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-B8

<400> 55258
tcccttttan natttctttt ctnttctntt attttatatt catttttct taatcaacct 60
ccttttaact ctctttttat tcccttttta taaccattaa ctatccaatg tnttcttcca 120
caatcaattt cctatttcat aacttccaat ctttaataata tattacctat ctaccacntt 180
tttaatttct tctttttcac acctcaaact caatagttct attctttgac tcatattttt 240
taccatacat aatacacctt tttttttttt cctttctttt cccaattttt cttttttaat 300

ccttcattat tttttt

316

<210> 55259

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-C11

<400> 55259

tctggggaac caacctgttt aatggaccta gcccgcctta cggctcgtg taaatcctct 60

gtccatcaat tctgtaactc tgttttatcg attaataaaa agaaccgggc ttgctcgccc 120

cataaaaaat ttaaaaaaat aaattatttt t 151

<210> 55260

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-C4

<400> 55260

aaatccaata attttcccca ttacctacaa aaaaaaaaaa aaataaataa tataacttatt 60

aaaacaccaa aaaaaaaat ttttttttat taataattaa aaaaaaaaaa attcttcccc 120

ttttttataa aatccaaaca ttctttaccc attaat 156

<210> 55261

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-C5

<400> 55261

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agagagagac gtgcggacat tgatgactga tgacattttt gcggtggatc aattgttccg 120

gaagaagcgg gcgaaaaatg gtggctcagg gacaagcacg ttcctgtcgt gccctgtgga 180

aattcctagc cgctgctgca acccatcacc aatgtgctct cgttgtccct tttctctact 240

atactactac ttctgcattc cttc

264

<210> 55262

<211> 247

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-C7

<400> 55262

gaaaaaaaaa aaaaaaataa atttaaaaaa tttatTTTTT cttcctctct aaaaaatcca 60

aggTtacttt ctCattcaag gaaccaagct tcccttctct tncntcccc aaattcaatt 120

tactatcctt ccacctacat ccaattcact ggcaaaaccc tacaacttct caacttaata 180

aaaccccaac acatcccact ttatcacctt tcataatat caacattccc ccacctatca 240

tccttcc 247

<210> 55263

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-D2

<400> 55263

ggaatacccg gcccgaacca ctcgacctct tactctnttt cttactcgtg gtctttctct 60

tgggaaaaaa aaaaaaacia aaaagaagtt ttttttaaaa aagaaagaag agccccacaaa 120

cacccctcaa catttccctc cccctaaat cccccccct tacttcccc ttctttctac 180

cttctacctc ttcttttttt tccctaaat ttaaaacacc tcccttcttt ttacaccttc 240

tcaactotta aaaacccctc cttttccac tottaattcc cttacacctc atcccccttt 300

ccccattttc ctttttttcc tatatacccc tcccttaatt ccttttcta cattttctct 360

ccctttttcc tatctctac cccccctttt tcccccc 397

<210> 55264

<211> 296

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-D5

<400> 55264

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tcattcttat tcacatctat ggatatccca ccaccccggt tccctctctg tatcttgggt 120
tatgttttca ttggaatcta ccacacogtc ttctactatt tcaaacttag gtttatcttc 180
tcagtattct cctaattatt ttgtttggca tcaacccttt caaattcaaa ctcttaattt 240
ttgtttttat tctaccctcc atttttgtat ttattctact acatttttaa ttattc 296

<210> 55265
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-D6

<400> 55265

tccgaaaaaa aaaaaaaaaa aaaaataaac aattttttta tttctaaaaa caaaaattan 60
cnnnaggaat gtttttttaa aaagggagcc ccgccccccc cccccccnt acntcccctt 120
tcatccaacc tcaatattct ctctatttcc ccccccaaaa taaaattcac tccccttttt 180
tttccaactt ccaaacctaa aaaccccttc cctccccccac ctatttcccc tttcaacaca 240
ttccccttcc cccctcttct ctttatccct aaaacccccc ccccttttcc cctttacatc 300
attaccccac tccttaaata cccattttta ctcccccc 338

<210> 55266
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-D7

<400> 55266

ccccnccctt ctcttcccc ttttttttcc ttttcttca ctctctttct ttcctctcc 60
cttcttttcc ctccctcctt ctccccccct tctcctctc ttttcttttt ttttccctt 120
tctttttcct ctacccttcc ttttcttttc ctccccctt ttttttctt ccttattatt 180

ccctcctctc tcttcccacc ccctatcttt cccctttttt ccttacttcc ctctctcccc 240
 ctctccctct tttttattct ttctccttcc ttccctccct ccttctctc ttttcattat 300
 tttctcctnc ttctcttccc cttccctcct tcttatttcc tctctttttc tt 352

<210> 55267
 <211> 270
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-D9
 <400> 55267

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 ttacatacac tacacaaaac atttatgttg gtttttctta aaaaagatca gaacaaaaaa 120
 aaatttccnt aaaaaaaaaa aaaaaataa tattttaa ataaaaaa aaaaaataaa 180
 aaaaaataa aaaatttttt ttttttttta atatcaaaaa aatatatatt accttatatt 240
 taatatatca tatctttttt ttttcttctt 270

<210> 55268
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-E1
 <400> 55268

tctgttcccg caccctgtct cctctcctgt agtctgcccg tcnccgtctg ctgcttcatg 60
 tgaagcgagg ggtgaggcat catgatgggt ctgaaggccg ttgctttgta cataaaccca 120
 aataagtttg gtgctatggc gaagccctgc atgccataaa tgggtggcctt cctcaactgt 180
 ctggccttaa acaaacagaa cgatgacaag tgtatcaagc agaaagatct tttggttgca 240
 tgctctcatg ctcagaatgg gaggccaaag aacgcattca ataccatcaa ttaccatctc 300
 cagcgacttg tgcgaggcaa gttcctctag tgcgtgtgtg agatcatttc ctcattccagc 360
 tttatgcctt gtaccgaagt aaaattgctg aaatggggca ttaatgtgtt tgcttagatt 420
 ggaca 425

<210> 55269
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-B7

 <400> 55269

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 tggtttttcta atgcaggcgg ggcagacttt ntaatntnca atcataactg cttctccnca 120
 aggactcaca gactttcacc ttctaaaagg gatgggcctt cccactcctt gtgtacttca 180
 atggtaataa ttgtgtcatg ccatctcctg aaaattatcc atggctgccg aatgcaaacc 240
 ctctaacaaa acaaccattg aactccac tctttatatt cttggtgcc tttgtgctc 300
 tgttggttta tgcattatta atgtgatcaa aatgtttagc aagcttcaag tttatgtccg 360
 attccataaa gtgcactgca acaggatatt tatt 394

<210> 55270
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-033-Q1-K1-F9

 <400> 55270

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 gggggggggg gggggggggg gggggggggg ggggggtggg gggggggggt gggggggggg 120
 gggggggggg ggggtgtggg ggggtgggtgg gggggggggg ggggggggtg gtgtgggggg 180
 tggggggggg gggggggggg gtgggggggg gggggggggg ggggtgggtg ggtgggtggg 240
 gggggggggg ggggggtggg ggggggggtg gggggggggg gtgggggggg tggggggggg 300
 ggggtgggtgg ggtgggggtg gggggggggg tggggggggg tgggggtgg ggggtgggggt 360
 ggggggggtg ggggggtggt ggggggggtg gggggggggg gggggggggg tgggggggtg 420
 gggggggg 427

<210> 55271
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-033-Q1-K1-H8

 <400> 55271

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 atgtatccgc gagattaatt tgtggtttcg atgtgcaaaa tgaaaccatt tctattggaa 120
 acattcctat tatgaattcc ttaggaacct ttataataaa tggaatatac cgaattgtga 180
 tcaatcaaatt attgcttagt tctgggtattt actaccgttc ggaattagac cataagggaa 240
 tttctatata taccgggact ataatatcag attggggagg aatgtttga 289

<210> 55272
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-034-Q1-K1-A12

 <400> 55272

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 ggcacccctac aaaaccagcg gagccctata tatgatgttt ctgcaatatt gacctctatt 120
 caatccctgc tgtgtgaccc aaacccaaat tctcctgcta actctgaagc agccacaatg 180
 ttcagcgaga acaagcgtgt gtacaaccgc aaagtctgtg aggttgtgga gcagagctgg 240
 acatccgact aaaactttat tcgcttcgcc aggcggtgta aataaagcat ctgtctttcc 300
 tacttggccg gtctgttt 318

<210> 55273
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-A6

 <400> 55273

 atggatcaga caagtttcta ctccgtgatg tcttgatac atagtgtgtc agccatnacc 60

aantnntttt tgcacccaag ttggaaactg caccagtaac caatgttgat gttgatgtca 120
atgcatcaga gcttttttaa gaaaacggaa atagcgcttt caaaagaaga cagtggatca 180
aggcaattga gttttactca aaggccatca gtttgagtga cacaaatgca acatattact 240
gcaacagatc a 251

<210> 55274
<211> 297
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-B4
<400> 55274

gcaaaacata tactaataat actagtaggt catttttttg agtcactcta tccttcatga 60
ggtgagtcac cataagtgcata tatctatgaa ttttggttna atcaatcact cctcatttaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa attttaaaaa 180
aaaaaaaaa aaaaaaaaaa atttttataa aaaaataaaa taataacatc tatataaata 240
taattttaat atattaaata aattataaat tttattcccc ccttttatat aataaaa 297

<210> 55275
<211> 331
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-B5
<400> 55275

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ttggggtagg taataaggaa tgtcggcggg tggccacatc cgggtgtgcct tttttttttc 120
cattaaccaa ggtgggctcg cactacatcg ttgatgccac ctacagagaaa gaatcccaga 180
tgagttctgc agtgtcgggt tcagtcaca gccatggcca gatatgcggg cttacaaaaa 240
ggggaggggc atggcttgat ccaaactgca tcttcgacat gatatctgtc gccaaagcatg 300
tgagccagca attcatctcc ctcttgatt c 331

<210> 55276

<211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-034-Q1-K1-B6

 <400> 55276

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 aggtttttttt tataaaaagg ggggcggccg ccccttcac tttttccctt ctttttttcc 120
 ctccccccct acttggttagc tctttttttt taatcccaaa ctaaaatcca ctttccctca 180
 tcttttcatc cactttaaat ctcttaacc acccttttcc caccttaatt tcttaacaac 240
 acatccccct ttccccctttt tt 262

<210> 55277
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-033-Q1-K1-E2

 <400> 55277

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 ggaaggggag gcacctccac caggctatgt ctgtcgctct tgcgggtgttc caggccattt 120
 cattcaacac tgctcacagg aaaacaagat acctccacct ggatacattt gctacagatg 180
 ccgaattcca gggcatttta tccatcgttg cccaagcatt ggtgatccca agtgcgacaa 240
 caataaaatg ctttgttctc ttgtcccagt agttacacct gtcaatggca ttttggtatc 300
 acttgccccg gcttcccccg ttagtgctgt tgatgacttg ccagcaaagc ttcactgcaa 360
 gctatgtaaa aaagtgatga gagacgcagt attgacaagc aagtgtgttt ttgatagttt 420
 tgtgatagat gtaagtgggtt ttcatttttt cata 454

<210> 55278
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-033-Q1-K1-E6

 <400> 55278

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 cccacagtg atgtccgcta ctgctcatct cagatgatac tacagtggcn gcatcctgtg 120
 cccatcgctt cccaaggtgc ttccgtttgc cttcgcgacc cttcgccgtc gccaaatgcc 180
 atagctcaaa ggagatcagt gttccttctt tctacaaaca tcatcgtact cgtcgtcgca 240
 atcgcaatat gacaaatgaa agagcttcca agaaaagttt gctgagaaaa gat 293

<210> 55279
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F10

<400> 55279
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 ggctggacgt tagattggag ttgacggcta cttcttcatg gcctggggca acgccactgt 120
 tcctgctatg gatattacca actgggttga caccaactac cactttattg tccctgaatt 180
 gggcccaaac accaagttct cctatgctct tcacacggtc tgtaacgaat acaatgaggc 240
 taaggcgcta agtcttgata ccttgccagc tcttgttgga ccagtctttt acct 294

<210> 55280
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-D3

<400> 55280
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 gatgccgatc tagacacgat tagccatgtt tatgctgaac tccgccgtga atcctctgat 120
 ggccaagggg ttcctattgc agtgaggcat atggagtcaa tcattcggat gtcggaggca 180
 catgcaagga tgcatttgaa gagctacgtg tctcatgaag atgttgacat ggacatgcat 240
 gtctcgctcg actactgtat ttcgactcaa aagttcgggtg tgcacaaagc acttcaaaag 300
 aatttcccgga agtacatgac attcaagaat gactacaacg agctgacact gctgcttctg 360
 cgcacactgg tcaacgacac catgcacttg g 391

<210> 55281
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F6

<400> 55281

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gatgtgagca tgatttacat gtctctctga gtccagcaca ccatgaactt tcaaaacatc 120
cgggagaaga acatcatgag gtctgagctc tgtatggagt ttaagaaaat attctaggag 180
atgtccatct tgttccatct tctaccccag taagttgaac tcacctatgt tcggctctaa 240
cccactgccc atgggctctt atcatacaag attgacgata gtttaatat tttaagtctc 300
atattgact 309

<210> 55282
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F7

<400> 55282

ctcatctcgg gtttcaaaaa aagattaaaa aaaaaaaaaa aaaaaaagaa aaaaagaaaa 60
aataaaaaag ggataaggg 79

<210> 55283
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B4

<400> 55283

cggacgcgtg ggcggacgcg tgggtggttc aggaaccgct gagcagatca cagatccttg 60
aagggtaggg tgtgcaaagt ggaatgtttg gccatggatg atggacagtc gctaactcgc 120
tatgctcagc caagctgctg ctgctgaagg ctgaagctga actcggcgat gtttctcagc 180
gacactagaa gataggttgt tggtcattta ggactaactg tactgtacgg tagcactgta 240

atgcaagggga cttagtggat gggagcgtgc caattttggc cgttgccagt actgtaaaatt 300
agtcctctcta ttttatttta ttttagtctc taaattgata aattcagaaa ctaaaatatg 360
tcgcatttag c 371

<210> 55284
<211> 364
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-B6
<400> 55284

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ggcgggggtat tgtggcctgg gttgacgata gagagtcact tgcaccgggg gagcggagat 120
gaagccggtt gtggggatcg tgggtgtacaa caagatgcat aagttggtgg tggttgcact 180
tgaccgtctt tttcaacaag gtatacaacc ggtacatgaa gcgcaccttg aagttcatgg 240
ctcacgacga tgacaacacc tgcaacattg gcaaccgggt tacgctggat ccttctagga 300
ccttgtgcag acacaagcac ttgggttagtg ctgaaattct gccagagct aacgtgtacg 360
tttc 364

<210> 55285
<211> 228
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-C12
<400> 55285

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gcgcgcgcta tgctgaggct gctaattctag caccgcgtcta gacgtttccc ttttctctgg 120
tggattacgg actggatcgg accaaagatc gatccagcta ctagttctaa taatatagtc 180
tgtacttgag aaaatgaata attgtaattt attgtcttct tgggacca 228

<210> 55286
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C2

<400> 55286

aaaaaaaaa aatacacaca aatataggat ttaaaaaatt ccaaacaatca aaacaaacaa 60

gggccaaaac gcaaaggg 78

<210> 55287

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C4

<400> 55287

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ttttaccccg ggctattaag ggggggtcat actcaaggga aagaacaacg aaacattaac 120

aatgaacacg acagtgaac gtgcatgggc atagcagtaa ccaactttgg cgctcttttg 180

gatttta 187

<210> 55288

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C5

<400> 55288

ttatttatat ttattaatgt tttaatgttt tgatattatt cctatttatg gagttttggg 60

tttttttcta ggggctaagg aataacttat ttattattta ataacttaaa ttatctaaaa 120

taataagtaa taaatatata ctattact 148

<210> 55289

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C7

<400> 55289

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tagtgtagat attgtgctac tgtacgtagt gtctcccttg ctctattaag ctttctgac 120
atgagacatc cagtttatct ataaacaaaa ttgttatgaa catgctcgat ttctactatg 180
atgtaatttg ccatctttct tggcacaacg agcatcatat aatatccagt gttcctgt 238

<210> 55290
<211> 55
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-C9
<400> 55290

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<210> 55291
<211> 275
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-D2
<400> 55291

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ttgttggttag attagggagt cagttccatt ttttttggca tgagcttatt tgaacaacct 120
cgttatcacc ccgtgcaaac aaaaaagaat ctagttaaac gccaatTTTtg cctactagtt 180
aatggtcgga aataccagtg tagaatcaga aatcggttac aactacaga ataatgtatc 240
tgatctactc tgggtaagca ttaatcttta acaag 275

<210> 55292
<211> 313
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-032-Q1-K1-G5
<400> 55292

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ccccgtcgtc gaagcccgtc aagtctctgc tgtggcaagc agaagaagaa gaagtggatc 120
aagggaaagc taatggagaa ggtgaacaac tcggtgcttt tcgaccaggc ttctactac 180

aagctgctct ttgaggtgcc caagtacaag cagatcaccc ttctccattc tattctagcg 240
 tcctatgata aatggctctc tggctcgtag ggctatcaag gaccttatgg ctctgtgttct 300
 taccctgttg gtc 313

<210> 55293
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G6

<400> 55293

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 acttccatga ccgtaaaggt gacaggataa atgccttctg tgcacactag attgaatggc 120
 aatacattgc atggcaatag gtaagttcca agtgtgtgct tcatggatag tgagatgggg 180
 catcctttttt ggtattcttc catgatactc tgttgatttg gtgatgatag cttgatgcct 240
 tatgttggtt catgcatata taggaaggat ctggtgtact ta 282

<210> 55294
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H1

<400> 55294

cccacgcgtt cgaaacactt tgccccctac ctgcagttag atccagccgc ttcacatag 60
 aagattgggc caatttgctt gcatccctgc tgtatctgga cccccaataa tttgacacga 120
 cgcaatgtag ccatgatgtg tgctatacaa tttgatagtg tgtggcctgt ttgagtcaat 180
 tatatatgcc agcattggat cctcgccctc tacttagtca cattagtata caataagtgg 240
 tggaaacagt ttactgtaat gaccgctaca gatgcaccgt ctcatgattg gtccctgtggc 300
 tctagtttca gccaatctgg aacatgggtg ccagtgtatc ttgtctgcca atgactgaat 360
 gcttttatgt 369

<210> 55295
 <211> 435

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-032-Q1-K1-H10
 <400> 55295

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 gatnngtgcc atcgatatac ttcatctggc ttccatcaac ttactatctg cactnatatt 180
 gcagttggaa tgctcatcan gtgtctatct taatctggct tccttttttt ccatcagctc 240
 agcagattnn agaataatgc cttcttanc tttttcaagc tgaaagggtc agtanttgaa 300
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 atggggcaat atcttctttg taaccgggtt tgcgaaccct tattatgcct tatatggaat 420
 accattgatg gggtt 435

<210> 55296
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-H11
 <400> 55296

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 cggcggccaa gtccgccgag aaggacaagg ggaagaaggc cccaatctca cgctcctccc 180
 gcgcgggcct ccagttccct gttgggcgta tccaccgtca gctgaagcaa aggactcagg 240
 caaatggtcg cggttggtgcc accgcagccg tctactccgc tgccatcctg gactacttga 300
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<210> 55297
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-H12

<400> 55297

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cctccagctt cactatctac tttcgacacc ctaagtgtca tcatatgtgt cccgatgtat 180
gattacatcg tggttccaat agccaggaga ttcactggca acgagagggg ctctacagag 240
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<210> 55298

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H2

<400> 55298

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tacaggttaa attttggaaat cgcaggaggt tgaactcatg acctttggac agcctcagat 180
aggcaatcct gcatttgctg gttactttgg ttaaccaagt cccaaaaaca attccgtgtg 240
accattaaa aatgatattg tgcccgaatt accaccgtat tattattacc taagtgaatg 300
gacaatccac cactt 315

<210> 55299

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H3

<400> 55299

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tctgttatga ttcttgcaat ggaacatata catgaatctt caaatggcca ttgtgtaact 180
atagtgttg ccaattggcc attgtagtat ttgctatgta caagagtggg tttggcatct 240
agtcaatgtt gtgcatagag ctgagaactg catagttact tgggttcaga aattatgcgg 300

aagcttgtaa gttgtttcaa aaaaaaaaaa acacatgcat gcaacgaaat agataattta 360
tagtgtaact ct 372

<210> 55300
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H4

<400> 55300

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gctacgacca gctccagatc ctcttcttcg gaaagaagta cggctccggc ggtgcttaaa 180
tgagaaaaa tgatgacgaa caagagcagt tcgctcccgg tccagcccag tcaggatctg 240
gtcaagtttt tgcttttcat atcgaagaaa ttaataattt atgtaggaga atttttccaa 300
cattcgtttt gggcggagac attgatctca aaacactcgt aactgtccta ctaggtgggtg 360
gcatgggtcc caaaacatg gtcataagggt gtgtctagtc ttgccttcgt tgcagccggg 420
caattttcct tacatatatg ctttgc 446

<210> 55301
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H6

<400> 55301

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tattgttgat atgccagatg gttggcttca ttgatgtctt taccttttct tttacaggtt 120
aaatttggat cgcaggagggt tgaactcatg acctttggac agcctcggat aggcaatcct 180
gcatttgctg tatactttgg tgaacaagtc ccaagaacaa tccgtgtgac ccatcagaat 240
gatattgtgc cgcatttacc accgtattat tattacct 278

<210> 55302
<211> 270
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H7

<400> 55302

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ctgtcatcag tgcccgatca gaagatgtag agatgtgctg gggtctgtag tttgggttac 180

tgtcgaatca tcgagtagtt ggttggtcac tgctgtaact tattatcatg atgcatatga 240

aatggcaatg aactatgtta tcagttctcg 270

<210> 55303

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H8

<400> 55303

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cacaacggca tgcagctgga agcggccagg tccttccttg gacctaacca agttcaattc 120

cagcaccacc caccgtcgtc gtcgtttcaa cagcagcagc aaaacagttt ccatggcttt 180

ggtgtcaacc cgcagtacca gcagcatgtc ctcaaccagc ttctgcagga agttaagaac 240

agtaacaacc gtcgaaagc gcagcaaccg tctctggatg caccaccgtc gaatgcgaac 300

tgcggggggtc tcgcgccagg agttgctacc cccaacgtca ttgctgctac tggggagcag 360

gggcagcatg tcaataacag tagctctaac cataacggca cggtaaaggg tgctgctggg 420

actggcccta gcaatgtcat caacaatagc 450

<210> 55304

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H9

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gacgaagagg ccatcttcga gatgccgcag ctctgcgga acatggcggc ggggatgatg 120
atgagcccg cagagctcag ccccgacacc ttcgacgagt cgcccgaccc gtccgaggcc 180
ggggagagcc tctggagcta ccatgacccg cagattgttg cacacctagc tagcttggcc 240
atggcaccag cagtgtgggtt atatctcata ccatcatagt gtactactag ttcacaccac 300
ctgctgggta gcatacccag agaagttgat tatt 334

<210> 55305
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G3

<400> 55305

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ggacaaacgt aataaaaaaaaa aaaaaactta cgtactccta catgcaccaa gtcttactat 120
cctatacatt cacctaaata aaatttcatt agggcgctcac ttttaattca atttatattg 180
ccaaaacctt atacattact taacttaaata atctttgagg tcatccaact ttatccattt 240

<210> 55306
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-E4

<400> 55306

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acgagacacg aagcctatcg gtcattctct gccaatcgac tgccacagga acatgaagag 180
catataaagc ggaggtccta ctctcctgcc aggagatatg atgctgacaa tggctatgag 240
aagaggctct ccacaacaga cagggaccga tctactatgc accgcatgta ccccataaga 300
tactgacgct tacctcctgg atcccgctcc aggtccgccg acgattcttc tgttgccagg 360
gactgatcga ccgatggatg ggtacaatat gaatggatg cgcacgacca gcatggatcat 420
gcgggtcaata ggctatgctc tttgtca 447

<210> 55307
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-E5

 <400> 55307

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 tcattgctca taccagatt aggaagatga agggtttgaa acagaagaag gctcacctga 120
 tggagattca ggtcaatggt ggtaccattg ctgacaaggt ggactacggc taaaaatttt 180
 ttgagaaaga ggtccctggt gatgctgtct tccagaagga tgagatgatt gacatcattg 240
 gtgtgaccaa aggtaaaggt tatgagggcg tggctactcg ttgggggtgc acccgcttc 300
 cccgcaaaac ccacaggggt ctccgcaagg ttgcttgat cggtgcatgg catcctgcta 360
 ggggtctcta tacagttgcc cgtgctggtc agaacgggta ccaccaccgt accgagatga 420
 acaagaaagt ttacaagatc ggca 444

<210> 55308
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-E6

 <400> 55308

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 tcttcacggt tttgcttgca atgattgaga tagatgtgct cattcgcctt gcagaaaatg 120
 aaaaataaaag atatctttgt gccagattc agagatgggt tgactaccta atcatatatg 180
 catggtacaa cagccataaa actgaatttt atttggttag aacctgaaat ggcggaaact 240
 ctcaggaatc atggtgcaac cgtgcatgga tcaattgtct aaactagtta catcattttg 300
 attaagaata aggattacct gatggttgtc tcctattttc tgttgtagtg caaacgtct 360
 aaagctgact gttggatggg gttggcgaag gtgtgcttga ataaggatca cctgaaggcg 420
 tggagtcctt ggtgctgg 439

<210> 55309

<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-E7

<400> 55309

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ctccttcagg ttgctgggtca caaggacgtc cttgaagggtg atccttatct gaagcagcgt 120
ctgcggctgc gtgagtccta catcaccact ctgaacgtgt gccaggccta caccctgaag 180
cggatacgcg acccgagctt ccaggtgagc ccgcagccgc ccctgtccaa ggagttcacc 240
gacgagagtc agccggcgga gctggtgcag ctgaaccagc agagcgagta cgctccaggc 300
ctggaggaca cctcctcct gaccatgaag ggcatcgccg ccggcatgca gaacaccggc 360
taggccaaga tcttcgggtgt gcaaataacc tgtctcccat gagacggtgg acgatatgtg 420
taggcctgtg agcagttagt 440

<210> 55310
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F1

<400> 55310

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tagaaaactt gttcaaacaa ctagttgctg aaaatgcaca aaaacataca agaagcgctg 180
atacctgtaa ggttatgttc atagaagaaa gggtttctgc aagaacatga agtgtcccta 240
caaaatcaat gttagatgtg gacgatgggg ccattttgca agctttgaac aatttgcaaa 300
gctcatcaat gagagtggga agatttggtta gatagaatag tgtgaggcat tagggaag 358

<210> 55311
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F12

<400> 55311

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ggcgaaccca actctccaca aggttcatcc gcttacctgc atagtaaggt caatggcaag 180
gagacatcta atggcaatct ttctcctaag aactcgccga gaaagacatc ttgcacagcc 240
gaggagaaac cagaatgcaa tgggagctta aatgggtggtg ggggtctctgc ggatgagaag 300
tcaactgtag gtatggagca acagaatggt gttcagaaga atgttgggag tagcaagggc 360
cagccacatg gacatgcaac tgaatagagt gggacttata ggacatagac aacagaaaac 420
tgaagaga 428

<210> 55312

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F2

<400> 55312

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aatgcttcaa tgtgtttcat ttccaaaga cctgagcttc gcttgtgatt tgttccgagc 120
tgtacggtgt cgattttgtg tatataatat aatataacga aataaagggt acccagtatg 180
agtatgatca ttccg 195

<210> 55313

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-032-Q1-K1-F3

<400> 55313

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tcaaaataaa tgagttgtta gttgtagaat attattctcg ccagacttga acttaacgaa 120
aaaaggaaag gttcatagaa tttttttccc cttccccttt ccccgaaacta aatcgacct 180
aggctcttaa ttcgtatttt cccgttcacc tagcagaaat agattaaccc taggatactn 240

ttttcttttt tggtatttcc tcgatgtgta ttttacatac cacagtaatt tgctatagag 300
 aatntctatt aattaaaggt attattgttg gaataaattg ttattttaatt tgatacattg 360
 tgatcgctaa cattgatgaa ttaagagaaa cggaagagaga gg 402

<210> 55314
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-F4

 <400> 55314

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 gccgggcccc acaccaacgg ctcccagttc ttcatctgca ccgtcgcgac cccttggtc 180
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 tagtttatca tgtattgctc ggaggttaat tt 452

<210> 55315
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-F5

 <400> 55315

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 tgtctgattt attgacactt gcggtctgta aggtgattaa atgtgtctta taaagttcga 180
 tttgtagggc tttgccctg tatgttcttg atatggtaac ttaagttgct tcattagaag 240
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 attaaccg 308

<210> 55316
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F6

<400> 55316

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ctatcaacac acccagttca tacaatacac tgcgctgtag atggcagtggt ttccaggaag  180
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tctcaagcgt ctacaccaca atcacgggca cccaccgggt caggaaaact aggatgccac  420
acac                                                                    424
  
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<210> 55317
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F7

<400> 55317

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ggtatctcaa ctgctggaga aatgctagtg ccctatTTTT ggctgtggaa ttggaaaaaa  180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatat aaaaaataaa  240
aaataaaatt aacataaatt aaatatTTTt atactataat atttatttta tatataaatt  300
aaaaaaaaat ggggggtcct tttaaaggaa tc                                     332
  
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<210> 55318
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G12

<400> 55318

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<210> 55319

<211> 440

<212> DNA

<213> Zea mays

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<400> 55319

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gtcatgaccg tgttgcatat atctcaacag ttctgcaacc aggagatacc ctcaaggtta 360
tgatactgag ccatgaccgt gaaagaggcc gagtcagcct ttctactaag aagcttgagc 420
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<210> 55320

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C7

<400> 55320

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 ggcgcgcgcg cgcggctctg ggcgagtcac agtagagatg caatatcatg tatccagtat 180
 ctacattaca tactaagc 198

<210> 55321
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-C8
 <400> 55321

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 cgctccttgg ggagtcttcg ccggcacctg cggcctctac ctctccagc catttgactg 180
 gattaagaaa actttcttcg agaaaccacc ccaaccagag gcataaaagg cttgcaagtc 240
 tgcaactttg gtacttcaact tttatccgga atggttcctg actgaagaga acttgataa 300
 ctacagcaaat aatacgagac cccctcgtgt ttccttggtt gcttttatta ttcagatgta 360
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<210> 55322
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-032-Q1-K1-C9
 <400> 55322

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 cgtcggccag cagcgggagc cacctggatc tcgacctggg ctctctctcc tctggggacc 240
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gccttgacct ggccggatcc caccgncgcg cgctctacgg cggcgggtac atcagctacg 360
gcgcgctgcg gcgggacaac gtgccct 387

<210> 55323
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-D1

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aaccgagctt ggtttctttg gtttctaatac ttcgtogetg gggatatagac tgaatcttcc 180
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agtttaggtt gcgggctaata ttacactggg aaatttgtag caggttctgc atgcgttttt 300
ggggccagta tgggcattaa gttgtgctca attataacca ctgtcatcat ctcttgggat 360
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<210> 55324
<211> 313
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ttcaactgct gttgtcgagg acattggccg ccagctgctg acctatggac gaagaattcc 180
taccccagag cttnttgcaa gaatagatgc tgttgatgca agcactgtga agcgtgttgc 240
aaaccgcttc atctttgatc aggatgttgc tattgctgcy atgggaccga tccaaggact 300
ttcagactac aac 313

<210> 55325
<211> 377

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-D3

 <400> 55325

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 ttgttgatga taacaattat ggaatgataa caccagatta gcgagaccac tacttgtacc 120
 atggcatggg tatgagatta ctatgatatg ataccattta tcatagacta tgatatcact 180
 acaacgctat tgatgcttaa atggaaggtc ttgatggatg ctatgcatga gctcatgaaa 240
 tagctttgac gctttatcga taaaaacgct agctgaacat ggtattcttt gaggacgata 300
 gtgcttgcta caatattcaa tcgactgctg tatgctacga actggttgag ctaaacgcac 360
 atcgaagctt actctat 377

<210> 55326
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-D4

 <400> 55326

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 tacaagggtc ctcgaggatt ctcgtgtgac catgaattct aaatgtacat aaaagtctgg 120
 cggaacttat agcatcctgt aatctctgtg agccgcggtc tgtcagtatt ggggtgggctt 180
 gctgtggtaa ctgggtggaca tgtcgagttc atccatttgg gtaggccttg gtgaacacgg 240
 acgccccaca tcatgtctca gtttgagtag tttgtgtgaa ctgaagggtta cgtgcttctt 300
 ccatgtgggtt gcaacgcttaa cttgagtcaa gtgctaacaa gagttgataa aattttgccc 360
 cacttcgtgt ttgtgacagt ctttttaaagt ctcttttctg agt 403

<210> 55327
 <211> 96
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-D5

 <400> 55327

aaaaaaaaa aataaaaaaa taataaaatt tataaaaaaa aaattaaaaa aagggaaaaa 60
 agttaaagt aatatggata aataaacatc atgttt 96

<210> 55328
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-D7
 <400> 55328

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 gtctgtctacg cgctcaagcg ccagggccgc acgctctacg gcttcggcgg ctaggccgcc 120
 tcccccttctg atgctttgat gtgacggccg tggtcggttg tgtgtctagt tggccggtct 180
 actgtagttt gttctgtatc ttcgtttcga ggtgttccag tttctagccc atttgggtgta 240
 atattttcac tgctattatc aatggaaagc cctcggttct atccccattg ttctggatca 300
 aaaaaaaaaa aaaaaaaaaa aacaaaaaaaaa aaaaaaaaaat aaaatattaa attaaataaa 360
 ataataatat tt 372

<210> 55329
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-D8
 <400> 55329

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 gcatgcggac ttgtacacga tgctgaacaa gcagagctcc agagggcaga atggcagaga 180
 tggcaaatcc cacagccgcc ctacttaciaa ggatggcaaa catgcccac ccaatgagcc 240
 atcagaatct ccttactttg gctcatccgt gcattacggg ggtcgggagt tctacagcag 300
 cgttttacgg aagcaaccag ccaatgaacc ccatacggat tacaaggggg acaaccggga 360
 tggctctgct accagaggtg attggtggca aggttcactt tattactgaa taatcttgct 420
 gggacctctc ccttttgtga acaag 445

<210> 55330
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-032-Q1-K1-E1

 <400> 55330

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 aagggcggca aggggctggg caagggcggc gccaaagcgcc accgcaaggt gctgcgcgac 120
 aacatccagg gcatcacgaa gccggcgatc cgtaggctgg ccaggagggg cggcgtcaag 180
 cgcatttctg ggctcatcta cgaggagacc cgcggcgtgc tcaagatctt cctcgagaac 240
 gtcattccgcy acgccgtcac ctacaccgag cacgcccgcg gcaagaccgt caccgccatg 300
 gatgtcgtct acgcgctcaa ggcgcagggc cgcacgctct acggcttcgg cggctaagcc 360
 gncnccctt ctgatgcttt gatgtgacgg ccgtggtcgg ttgtgtgtct agttggccgg 420
 tctact 426

<210> 55331
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-032-Q1-K1-E11

 <400> 55331

ggacgaggac ccatacagct aatcataag tacaactaca ggctcgccgg gcaagcgctg 60
 aacctgaacc tgggtgggca cccggacctg gtggcgagag acccgtgggt agccttcaag 120
 acggccatct ggttctggat gacgccgcag tcgcccaagc cctcgtgcca cgcgtgatg 180
 accggcgact ggaggccctt cgccaccgac cgcgccgcgg ggaggctccc cggatacggc 240
 ctgaccacga acatcatcaa cgggtgtcta gagtgcggcg aggaccgctc caccgacggc 300
 gccaaagccg ccaaggaccg ngtcggctac tacaagaggt actgcggtat gctcggagt 360
 gggtagggg acaacatggc atgcgggagc caaaagcctt accggagatg atga 414

<210> 55332
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-E2

 <400> 55332

 cggacgcgtg ggctgcaaaa cgctgcagga ccgtggagga ggtgatccag aaagcgaaca 60
 acacccggta cggcctggcc gccggcatcg tgaccaagaa catcgacgtc gccaacaccg 120
 tgtcgcggtc catccgcgcc ggcgccatct ggatcaactg ctacttcgcg ttcgacccgg 180
 acgcgccggtt cggcgggtac aagatgagcg ggttcggcaa ggacatgggc atggacgcgc 240
 tcgacaagta cctgcagacc aagaccgtcg tcaactccgct gtacaacact ccatggctct 300
 gaccgaccga cctctcatcc tgtccgatga acagttcaac atcacaaaca agaagaaaca 360
 tgtcttgtaa gatactcctc caaaggatcg ggtgcctgta gctgtactct tacacctgca 420
 tggattgatg tcttgatgat gtagtgcaat gt 452

<210> 55333
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-C6

 <400> 55333

 ggcagaacta aggttcaaga ttatgggaaa tgggtgagtc gtggcacttt tttggagagc 60
 aaggtgcaag agtacaagtc tgcgaggata tcaatgggca aaggcacatt tgtatttttt 120
 gactccaaag cgatttcagt tgtaatagaa ataacttatt gtgtgagatc ttagaaactc 180
 atgctgatag tattcaaaat tgctggtctt atattgtgac aatgagagat tattagtcac 240
 taaaaaaaaa aataaacaat atattaaaat aaaaattaaa taataaaatt tgatactatt 300
 tttaaatata gtattaaaat gtgaaatatt ttacacttaa t 341

<210> 55334
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3088-032-Q1-K1-A9

<400> 55334

ccccgcgcgcg ctatggacgc tgttgactcg gtggtegacc cgctccgcga gttcgccaag 60
gacagcatac gcctcgtcaa gcgctgccac aagcccgacc gcaaggagtt caccaagggtc 120
gccgcgcgca ctgcgatcgg cttcatcgtc atgggattcg tcggcttctt tgtcaagctc 180
atcttcatcc ccatcaacaa catcatcgtc ggctccggct gatccatgcc cctcactccc 240
tcaggagtgg acaatggcgt ctccgccttg gaggcgcagc tctggcatcc ggaaagcagt 300
ttgttttaggt gaaggacgag tcccgtggta gacctgtaac tctnttgtgc ctgatgccga 360
atagtcgtat gtgaaagaag aaaaaattaa aa 392

<210> 55335

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B1

<400> 55335

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aaaagacaaa gtttactctt ttctggatca tatgttttgt gctacttatt gctgttctgg 120
ccgcattggg ccagcatgca gttattcacg gggtcaacct gacaagcgct ggctgcagca 180
gcgagggtgtt tgtaggtttc gcggtgattc gtctacccaa atctggaacc gtactgatac 240
tgaagaccgt actgatactg aaggcattat ccggcgtaaa ctgttaattc aaacattatt 300
acacg 305

<210> 55336

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B10

<400> 55336

gcggcggtc gatgaccacg gccacgcgct cggtggtcag tgcccacgcc cagcaggccg 60
gtccagacaa gagccggcag caggagcagc cgccgcgcgc gccttcttcg ttgaaccaga 120

cggcggcgag gctcctgcgc gaggccaccg tctcccgcgc ggacggcgag aagccggcgt 180
cctcgacat cctggccttc gcgcgctccg tcgaccgcgt ggactcgctt ctcgagtagc 240
tttttttttg cttgccact ctcagtcagc tactggctca ctgtgctttg ttcttttctt 300
atccatcttg tgttcgcacc gtaataaaaa agggtaaca ctttccttcc t 351

<210> 55337
<211> 415
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-032-Q1-K1-B11
<400> 55337

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ccgccagccc gagtgaccgc tgcagcctag ggtttccggc ggcgatggcg ggtaagggag 120
ggaagggctt gctggcggcc aagacgacgg cggccaagag caccgacaag gacaaggaca 180
ggaagaaggc ccccggtgctg cgctcctccc gcgcgggcct ccagttcccg gtgggtcgca 240
tccacgtca gctcaagtcg cgtgccttcg cgcacggccg cgtcggcgcc accgtcgctg 300
tctattccgc cgtcatcctc gagtacctca ccgncgaggt cctcgagctg gccggcaacg 360
ccagcaagga cctcaaggtc aaacgcatca ccccgcgcca cctgcagctt gccat 415

<210> 55338
<211> 338
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-032-Q1-K1-B12
<400> 55338

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cttctcgctc actgccttcg tttctctttc caacaatcaa gatgagccgt ggcggtagcg 120
cgggtgggtg tcaaagttct ctgggttacc tctttggaag cggtgagccc cccaaaccag 180
cagtggcacc agctgtaagt gctccacctg ctgctgcagg tgctccacct gctgagaaac 240
cacctgctgc aaagcctgat ggcaccagtc agattgctgc tggggttacc agccaaacca 300
ataactacca cagggccgac ggtcagaaca cggggaaa 338

<210> 55339
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B2

<400> 55339

agcagggttga agtacgcaag aaaattgagt actctatgca gttgaatgct tctcgcatca 60
aagttcttca agctcaggat gatctagtta acaaaatgaa agacgatgcc atgaaggaaac 120
ttctccttgt cagccacaac caccatgaat acaagaacct ttgaaagac ctaatcattc 180
agggtttgct ccgtttgaaa gagccagcag tattgctccg ttgccgcaag gatgatcacc 240
atcatgtgga atcagtgctg cattcagcaa agcatgagta tgcataaaaa gcagatgtcc 300
atgaaccaga gatatttggt gatcatgatg tatacctgcc acctgcccga agccatcatg 360
atgctcatgg ccagttttgc tctggaggta ttgtattggc ttctcgagat ggaaagattg 420
tgtttgagag tacacttgac gcaagac 447

<210> 55340
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-032-Q1-K1-B3

<400> 55340

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gcggcgccaa gcgccaccgc aagggtgctgc gcgacaacat ccagggcatc acgaagccgg 120
cgatccgtaa gctggccagg aggggcggcg tcaagegcat ttctgggctc atctacgagg 180
agacccgcgg cgtgctcaag atcttcctcg agaacgtcat ccgcgacgcc gtcacctaca 240
ccgagcacgc ccgtcgcaag accgtcaccg acatggatgt cgtctacgcg ctcaagcgcc 300
agggccgcac gctctacggc ttengcggct aggcggtctn cccttctgat gctttgatgt 360
gaccgccgtg gtcggttgtg tgtctagctg gccgggtctac tgtagtttgg tctgtatctt 420
cgtttcga 428

<210> 55341
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B6

<400> 55341

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acttatatat tgtatgtacc agctgctcaa aaaaaaatta ataaaaaaaa aaaataatac 120
ttataaaaaa ttaataaaaa taatttaact aacaatttta aagagaaaat aaattaaag 179

<210> 55342
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B9

<400> 55342

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tcgaggcatg gagctggtct tttctgcaga ttttgagcct gatacccgct ttcactgtgg 120
ctgcaacacc attaccgggg cgctgcgtgg tggcttctgc cttttctttg tttcggcaat 180
aatgctctta gtgagctact agcgatggca tgtgcatcta tggcaagtaa tgagcctgcg 240
ataggatgaa gattaatctc atgacattag attaatccag aggtctgagg 290

<210> 55343
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C10

<400> 55343

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acctttgtct gaaatcaaaa cctacgaaga tgatgggacc agaactgttg tcaccaccag 120
tgaaattact cctgaagaag atgacattgt cccgaaaact gtcggccccg tggcgacgag 180
ccttaccagc aagaatccta gctcttttgc caagaagaac agcatgttat gtgtgaagag 240

gaagccaccg aagagaacgt tcaagagcaa ggctagagcg aaaaggggtg acaagaagcg 300
ggttgc 306

<210> 55344
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C11

<400> 55344

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gcgacagtgt tattttcatt cagcacaagc ggcagctgag catgctcaat gatgtctaata 120
agcagacgac ttgtcctgac acctgagtc aatgtcatct tcatgcagcg aacgttttgc 180
tcatgagtta ggctatgagg tccttcagct gcgtaacatt atgttacttg gtctggttgt 240
atcacttatt attgcatgtg cacctctttt ttccctcctt cggaccttgc ctctagtca 300
tcttcagatt ttaagctagg attatccctt atttacagtt gagttattat tagaatctat 360
tgtgcctgaa aggatcaatc tgaactatca atctgaacga gaggggtgaa ttagtttttt 420
ct 422

<210> 55345
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C12

<400> 55345

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ggacggccgc aacatcaccg tcaacgagcg ccagtcctcg ggcggccgtg gaggcggcgg 120
cggcggcggg tacggtggtg gccgtggagg cggcggctac ggcggtggcg ggcgccgtga 180
tggcggcggc ggctacggcg gtggcggcgg ctacggtggt ggcggcggcg gctacggtgg 240
tggtggcggc ggctacggcg gtggcaaccg tggcggcggc tacggcaact tcgacgggaa 300
ctggaggaac tgagcggg 318

<210> 55346

<211> 60
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-C2

 <400> 55346

 tgtttctggt gggattcaag ttcaaccctg ggattattgt gaaaaaaaaa aacactagag 60

<210> 55347
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-C3

 <400> 55347

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 tctcgagatt cattgaagtt aaaaagccct catgtatatg gctcactatt tatatacatg 120
 taatattgga ttcccggtgtt cagtgtcctt ttgtatcaat ttggctgcat agtgtcttgt 180
 ggcaactcaa aggacataga ttgttgacgg gcaaccaaac ctcaagaaag tatcttgtat 240
 tgtttcttgt ctcggtgtgg ttgttcact 269

<210> 55348
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-C4

 <400> 55348

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 aggttctgag gctacagcct ggacacaagt actgcctcct cggcgagctc tctaaggagg 180
 tcgggtggaa ctaccatgac accatcaggg aacttgagga gaagaggaag gagaaggcca 240
 aggttgcccta cgagaggaag aagcaattgg ccaagctgcg tgtcaaggcc gagaaggcag 300
 ccgaggagaa gttgggggtct cagttggaga ttcttgcccc tatcaagtac tgaggagctg 360
 tgctttgtca tcagtttttg ggaacatcta gtctttgttt taagtgttcg gtaacagttt 420

gtgacagtat aatctggtaa accgtgttat ttt 453

<210> 55349

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A8

<400> 55349

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cgaccttgag aggetcacga agatcaggaa ccaccgtgga ctgcgtcact actggggcct 180
acgtgtccgt ggccagcaca ccaagactac tggtaggcct ggaaagaccg atgggtgtctt 240
caagaagcga tgagctctat atcacctga gaaatcttgg ccgcactacc gtgttggaac 300
gtgtgcaaac aggttctgat gaaaggtttc tgtctaggca gtttaatgaa atgggtgtttt 360
gatgtaggac aatctttcgg atat 384

<210> 55350

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C5

<400> 55350

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atgaggctctt agatgcaact gaaccactc caaggggttt gctcaggaac attgacttga 120
atttagatcc aactgatgaa gaagatgaga ttacagtgcc accccaagcc cagtcgatcc 180
agcgattagt tccgttgcag ccactgcggg accatctgtt gcactttctg ggtgcttggg 240
aactgcctga catgaacaat atggagatgg gccctgtcca gtttgctttg taaaaaaaaa 300
tacagattgg agagaatggg tattatgaca atcaagacta gctctgccct tatagctttc 360
aaagtggata agtaggatag catgacaagt gtaggttcat cttaactctt tagagattct 420
catgtatcat gtgtat 436

<210> 55351

<211> 184
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-H1

 <400> 55351

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 ctgatgtggt cttggcgat gaacaactta gatcgttgac gattttccgg caagctggtg 120
 catgattttt gctcgatcat gttcttactc aatgctgagt gcaactcaga tacgctgcgt 180
 cttt 184

<210> 55352
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-H10

 <400> 55352

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 gaattctaca tgctggccat gggcatgcat aactattgca gattcatgta catcttacac 120
 aactacatta accactcgag ctatggatca aattcatgcy ttatctctac ccgtgtgaat 180
 gctacattaa ctcaacattt gtgctatgtg taataatggt gtgacatgct atattctacg 240
 gctgtactac aatcaataga tgtgatggct gcccaagtct actgatctgg cagtattgtg 300
 attttaatag ccgcccgtac tatgaatcct tgattacaga cttaacca 348

<210> 55353
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-031-Q1-K1-H11

 <400> 55353

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 agatcaaggt ggtcgctcct ccagagagga agtacagtgt ctggatcgga ggatccatcc 180

tggcatccct cagcaccttc cagcagatgt ggatcgccaa ggccgagtac gacgagtccg 240
 gcccatccat cgtccacagg aaatgcttct aattctttgg gcccgagaaa tgcaagccgt 300
 gggggagccg ttaccgncgn cagcctctcc tgcccccggt ttcggtgccc tttcttcatt 360
 agcgcgaaca aagttttgtg ccggtctatc gggcgccggt ttectgccct attcaataag 420
 actgcaataa ctgtcgctac ctatgc 446

<210> 55354
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H12

<400> 55354

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 gattcaaattg tgcattgctg tgactcaact ttacagatcc gaggaatgca tactcttatt 120
 cgcgattggg tcatctccac acctgacttt gtatgatatt cagatctatt gatccattcg 180
 gcagtggctc atgggtcttg acattgtgcc atttacagaa aaacatgtta ttacccaac 240
 aggatcctgt aatatgggag ttgacttgcg tatgaagctc tattgaatct ctatt 295

<210> 55355
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H4

<400> 55355

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 gcgaaacgcc agcagccgca tcgatggcgc ccaaggcgga gaagaagccg gctgcgaaga 120
 atccagcgga ggaggagccc gctgtcgca agggcccgga ggggaagaag cccaaggccg 180
 ataagcgcct tccggcggtc aagtcgtgcg gcaaagaagg cggcgacaag aagggtgaga 240
 agaaggcgaa gaagtcggtg gagacctaca agatctacat cttcaagggtg ctgaagcagg 300
 tccaccgca catcgcatc tcttgcaagg ccatgtgcat catgaactgc ttcataaacg 360
 acatcttcga gaagc 375

<210> 55356
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-H6

 <400> 55356

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acggccaaag cgcgccttga ggagagggtc aagaccggca agaacagggtg gttctttacc  180
aagctccgct tctagatgct cggccctccg aataggcctg ctttagctgg cgaattgggtg  240
gatcggacac acttcatctt tggtttcgga ttaccatgaa tatttcgggg ttaatcctgg  300
ggctttttaga gataaatttg ctaagaattg ccggtgggtgg ggtacatggt ttcgtgaaaa  360
ggctgggtta aaatttggtc tgggtt                                     385
  
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<210> 55357
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-H9

 <400> 55357

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atcgtctgag ccgacctctt ctactgatca gatgcatgct aggcctctgc ctctgatgct  180
ccatcttcac gatgatgaac taagtgtcc gctggcctg ctggaacaca ttccagcttc  240
ttgcgacatt gatggatgta gagggttgc ttgagctact gagcaagcag tattctgctt  300
ctgatcggcc ttctgactat caggacttca ttagagactt cacaagacaa ctctttcgga  360
tgtcttc                                     367
  
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<210> 55358
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A10

<400> 55358

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ttgcttggtt gttttggaat tggaagtggg ggtaaggctg gcttgcagat taacggatgt 180
aggccgcctt ttatcacccg tcaattaagc atttgtgggg tctcatgggt atagtctctt 240
tcagatgaga tgttttgcgt gttacctaag tgtgtagggt gtaatgagcc cttgtatttt 300
gtttttatgc atact 315

<210> 55359

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A11

<400> 55359

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gaccgtattt atacacacga caccgtacat tacactcgcg tgatagtaat gggtatactg 120
caaggggaag gtaaggatgg catttaagtg cagagcggag aggggtgggtg cctgggtggg 180
ctccggccat cagtgcggcg gcaggaccgg cagctagcta gctgcgccgg cgcggcacac 240
acttcgaggg caattcaatt caactgtttc aattcatgta actggcactc tggcagcggg 300
tgtttgctgc tgcttgctgt gtttttttga agacgtgaac atgaaataca aaactgagct 360
tgttttgtcc atggct 376

<210> 55360

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A3

<400> 55360

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ggcattgggt tactcgctat gtcgagtacc acagggtgtt gaatgccaaa ggggatgatg 120

ctggtggttg cgaaaaatth gccaagtact acaggtccct ttgccctgga gaatgggttg 180
 agaaatggaa cgagcagagg gagaacggta cgtttccagg acctctctga atgtaccgtc 240
 cgagaccttc aattggacca gtcaacaagt tggccatgca gtctactgt tccattctgc 300
 attcctactt accgaatcgt aaatgccttt tggctcttgc tctttaacca attaccacaa 360
 aactgttagt gatgcctctc gtacgcagct ct 392

<210> 55361
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A4

<400> 55361

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 gctcgccgag gcggacgagt tcgatgacaa gatgaaggag ctggagagcc ttgcaaccc 120
 catcatcgcc aagatgtacc agggcgcggg tgccgacatg ggtggcgccg gcggcatgga 180
 cgaggacgct ccggttgga gcggtggccc tggcccaag atcgaggagg tggactaagc 240
 ggattgtgtc agtctcgtgt gtctgtctga gtggctggct ggcccagtcg ctgctcgatt 300
 tatcgtcgtc gtcgcggtgt atccgcgtta gaaccttttg ttggtgaaca atattatcgt 360
 ggcacgcgtt ttaagtaata cggatattctg gttcggtt 398

<210> 55362
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-032-Q1-K1-A5

<400> 55362

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 caagaaagcc ttttttgaga agaggatata gaactgtgcy tcaaakatgg tgaacaacag 120
 agagagggag aagatttttg tagccagcca ggagaaattc cagcccgcyg cagacaagca 180
 gtactggaaa tcgatttcgg atctcatccc acatgaaata gccaccatcg agaagcgggg 240

gaagaaagac aaggacaaga agccatccat cacagttgtc cagggcccca agcctggcaa 300
 gcccaccgac ctctcccga tgcgcatat cttggtgaag ctgaagcatg ctccgncgnc 360
 acatatgttg cagccttcac caccagcacc tgctgctaaa gagggcacia aggatggcag 420
 cgccaaaagt ggtggaaag a 441

<210> 55363
 <211> 296
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-A7
 <400> 55363

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 tggagagagt ggtgctacct acctgcactg ctacactaga ctaatctgtg tgaatggaat 180
 actactgtac tttgtctttc ttctaaaaaa aaaaaattag actcttactg attctgtaat 240
 accgtactga ttctattagc attattccgt cgtaaaactgt taatttaaac attttt 296

<210> 55364
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-031-Q1-K1-F10
 <400> 55364

ttcccgaatt gaccacgca tgcactctaa cgtccatata ctctactccg cagccttgcc 60
 gttctcagaa cttgctattg tcttcggcac tgggttaatc ttaatggggc cacgggttct 120
 aatctgattc caattccaat gctcaaggac cttacagcca aattcatata gttaaagcat 180
 ggcgtacatg atctgatctt tcaaccacta aactaattca tacactcggc ttccagacac 240
 gttcttatca aacaggggtga ttttctata aatgtgaata tcatactc 288

<210> 55365
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-F2

<400> 55365

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aaggggagtt gatcgagaag cgttggtgga catgggtcag atccagtact ccgagaagta 120
cttcgacgac acctacgagt acaggcacgt cgctctcccg ccagaggctcg ccaagctcct 180
tccaagaac cgctcctctt ccgagaacga gtggcgcgcg atcggagtgc agcagagccg 240
cgggtgggtg cactacgga tccaccgcc ggagccgcac atcatgctgt tccgccgtcc 300
gatcaactac cagcagcagc aggaggcggc tgccgcgcag atgctggcca agtgagcccc 360
tggtggccag ggccgacg accgaacgttt aaaaccctaa cccctttcc atttctaaaa 420
ggggcgctcg tggtctgttg atcaattcct ctatgctg 458

<210> 55366

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-F5

<400> 55366

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ctgccggtgt ccaaagctgg agaacaagac gccaccgcca ttctagggag gatcgttgct 120
cgcagcaagc tggtcgacgt tggctgcgtg ctcttctaca aagaggggtga caatggagtg 180
aacatgcgac cgggggggct gattcactcg gcgaggggaag cacgtcgccg tgccgctgca 240
catgccgctg acgattgac ttgacctgca t 271

<210> 55367

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G2

<400> 55367

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gcccggtgtc tgggtccaga agaagataag aggggaatatg atggtactga atgatcacat 120

atctaaggag atgaatgagc tgaacctaat aaggtgccaa cacattccga aacggccggg 180
 ttgtgattgg catgacctac cggacgagaa ggttaagctg tcaaattggc agatggctga 240
 cctgatacct tggcgcctgc ccaacacagc caagaggcac aatcagtga aaggactgta 300
 cgggaggctg gactgggaag gcaacttccc cacatccgtc actgatcccc agccaatggg 360
 caaggtcggg atgtgcttcc accctgatca agacaagatc atcacagtcc gggaatgtgc 420
 tcggtcacag ggctttcctg acagctatga atttgcgggc aacatccaga acaa 474

<210> 55368
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G3

<400> 55368
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 gctctatgct gctctaactt actgtagagg gggactagaa gttcgagcgc ctttatttgt 180
 gcttgtacgg aagattgctt gcttgctgctg ttgatgatgt atgctcctag cgatgtgggtg 240
 actgggagcg ggacccccga tc 262

<210> 55369
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G4

<400> 55369
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 aatcatatag tactaatatt ggcgaaacat aagac 95

<210> 55370
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G7

<400> 55370

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cgctcgagcg gctcgccgag gtgagcgccg ggagctcgcc ctcagctctc gctctatgct 120

gctctaactt actggagagg gggactagaa gttcgagcgc ctttttttgg acttgtagcg 180

aagattgctt gcttgcttgc ttgttggtgt tgctcctagc gatttggtga ctgcgcgagg 240

gacccccgat cacgcggtac gtagaggagg ttttgctccg cgtgatcggt agtttggagc 300

ctggaagagc caatctcaga ctacgggtct cgcggttgc tctggggccg ttggagtggg 360

tgggatatcg ggtgcgtctt gtgggtgcat gc 392

<210> 55371

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G8

<400> 55371

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ccaatctttt gatcatccaa gtatagcata catctcagca acacctgcct tcccagccgg 120

cgtgaaatth cttttgctga aactggatgc tggactcttg cggctcttgc ttacctagac 180

gtgctgacca taagataagg tgtgtaacaa gggacacgat agtgttttgt ctagagcagc 240

gggcgaacag gcgcacactg tcacaattac gtttccagtt cgtcttttag cagcctttac 300

tagttgatat gcttgttcga ttggtatgtg taaaaattht gggcatgttt cttaaaacac 360

ac 362

<210> 55372

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D10

<400> 55372

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gcacgaggtc aagatgtcca agatcaagga ctccggtgat agaaggatca tgcggaggtc 120

ggagagatag tctcacgtcc caagggcacc tgcggcaaca ctcatgttta gctactgctc 180
 ctgctgcaac tgaccagaga tggctattaa attctgaggc taatccacta attctaggac 240
 ctaatttttg tgctctccaa ctctcttgct cttacatacc ctagctgtga catttctgaa 300
 ataacatctt acacttgctc gtgccaagat ttatgtcgaa ccaattttca cagatacctg 360
 ctgaatgctt ctgtgtaacc cagttctgat tgggctatct taccgtgtag atctggctcc 420
 tgtaggtaca attcaagctt tactgcttca atctgccaaa ctagaatat 469

<210> 55373
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D2

<400> 55373

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 ttaccctggc aactggatgt tctgtgttca atttcagtta cttttgaact gtaaggctctg 120
 ttattactag tttcccagaa cttatatgct cacgtgcgct ttatttcaat gtctattttg 180
 tgatgtgtc 189

<210> 55374
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D3

<400> 55374

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 ggcttctctt ggcattgaat ataagtcaaa gttgtccac ttgaagctct ggtctttttg 120
 tccttggact ttggtttgcg ttctggtgag gtagtagttg gtatgttcgg gcttcaatcc 180
 tagatgtcat gaaactgttg taatttcatt gcttcagtaa tgaactttgg attggtccgc 240
 tgtgaaaaag tacccaaccc tcttggtgtg tatgtttcag ctctaaaaaa gcat 294

<210> 55375
 <211> 461
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D4

<400> 55375

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agcatgagcg tgatgcagta acagcaaacc aagatggaaa aggctctagg aaggcaaaaa   120
agagagcaca actcagcaag aatggccaaa tcagttcact gagtggctgc ttcacttgcc   180
atgctttctg atacatgtaa ttccaaaatt gagaatcagg atccgacaaa ttccttcgca   240
ttccatgcac caccttcatg ttccccacat caaaatctgg gtgaagttcg gagatccatc   300
acatatcagt acataatatg atgatcccac agctggagat tagacagaga tctttcgaag   360
atgctagctg caggctccag ctgctatgat agggacaatg ccaaggggac aaataaaatg   420
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<210> 55376

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D5

<400> 55376

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gcatccaggg gagacatgct atataagtcg aaaatcacc ctttgaatct ctagagcata   120
tgtgcacaga ctttgctttg cgttgtgcta aggtactagc caggtatggc acgggattca   180
a                                                                                   181

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<210> 55377

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-E5

<400> 55377

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tcttgacctg ttctgcgctg tgagcaaatt actccacata gttttagcag gagtaaaggt   120

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ggtggtgttg gtagcagcag caggcagtag gccagtagc

159

<210> 55378

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-E6

<400> 55378

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aaatccgaca ggaaacttct gtttgatctt gtgaactcaa ttttggctga catgaccatt 120
ccagacattg gcttgtgttc aaagctcatg atgaagcgct ggcctgaaat agatcacgga 180
cagttaactg aaatcgctcag gcaaagtgtg cagaagcgaa gtaactgtgg gcactttttc 240
ttggaggatg ttcagccttt gccattggac catggttctg aggtagagct ggttggaaacg 300
aagattgcca tgatgatcca tgatgacatt atgacagatt ttatcgctcg aatcatgtcc 360
taggagaacc tccttggtat cagctaattg ttaagggctg tagttgttta gctagattgt 420
t 421

<210> 55379

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B2

<400> 55379

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aaaaaccaga aggtccaatc ctagaatttg actgcaactt taatgatgat gaactaacia 120
ttgaaaatat gagggcgctg aaccgtgata accccgatgc taagaatgtg tatgaggggc 180
cacaattttc ggacctggat aagagcttgc agaaggcctt gcacaggtac cttgaggtca 240
gggggttcaa acattcacta catgattggc tgtacgaata catgatgaga aaggatgaga 300
aggagtatgt tgtttggctg aagagcatga aggagttcat cggc 344

<210> 55380

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B3

<400> 55380

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ggcctcactg gccatggcga tccggacgag caacaacgtg atcggctcgc tgaacctggc 120

gacactcctg ctctcggtcc ccatactcgt ctcggaatc tggctgcggt cgcgcgccta 180

cggctccgag tgcgaccacc tactgtccac cccgtccatc gcgctgggcg cgggtgctcat 240

ggccatcgct gtcgcgggcc tcgccggcgc ctgcttcgcg gccacctgtc tgctatggct 300

ctaccttctc accatgctcg 320

<210> 55381

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B4

<400> 55381

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gaggggcgcc tttaccgctg tgatgttgaa tgctcgtgtt cagtagatct ttacttctgt 120

agtgtcgtcg ttgttattgg aactggttag tagatctgtg cattgtgggt gaaaaaaaaat 180

aagtaag 187

<210> 55382

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B5

<400> 55382

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caccagcagt ttagctgagc acgacacaaa gccgtctggg gccgactggc catggcgatc 120

cggatgagca acaacgtgat cggcgcgctg aacctgggtga cactcctgct ttcgggtccc 180

atcctcgtct cgggaatctg gctgcggctc cgcgcctact gg 222

<210> 55383
 <211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-C1

 <400> 55383

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 ggcgatcgat gagttcatca agattgttgc ccacactgct cactctgaag accttactgt 120
 ggtctaacga atcctaattgt ctggggcgat acatgaccga agcggcatcc attggactgt 180
 tgggtgcttc at 192

<210> 55384
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-C11

 <400> 55384

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 ggtgatcatg tcgtcttgct gcgccggcaa gtgcgggtgc ggctccagct gctcctgcgg 120
 cagcggatgc aacggctgcg gtatgtaccc tgacgtggag accgcgcga ccagcagcgt 180
 caagaccacg gtccctcgccg cgccgaccac caaggccagc gccggcggt tgcaggcggt 240
 caccgagggc ggcggctgcg actgcaacac ctgcaagtgc ggcaccagct gcggtgctc 300
 ctgctgcagc tgcaactgag ccggcccggc tcggcgatgg cgcacgagag tcgagaggac 360
 gacgacgagg aggcgtataa taaatataat agcggcgtcc agtaaataag atcctgtcaa 420
 ctgcacccgc cattatccat ggtegetcgc t 451

<210> 55385
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-C2

 <400> 55385

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 gctggacctg gtccccaacg tcgtgttcgt gccgttcgtg acgctgctcg gcatcatcgg 180
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 ctaggaggag aagaagaagg agacgatg 268

<210> 55386
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-C3

<400> 55386

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 catgcgtgta tttttatact atgttccagc aagtgtgtgt attttttata taccatctaa 120
 tttttgttgt ctgctagttt acttttaaac tatagcacga taaataaaaa agaattggaga 180
 tggatatatat gatctagcta aggccttggt cggttattaa ttgtcctatt ccatatgtat 240
 tagatgggat tggaaaaaat tatgaataat gttcacttgt ttggattata aacaaactca 300
 atcttgttca atccatatgg attgaga 327

<210> 55387
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-C4

<400> 55387

gatccatggg gtgttcccga tgactacgaa tgtgaggtga ttgaagacga caccccaatg 60
 gctaaggatg ttctcagca cgggcctgtt gctcttcctg aggagttctt caaggcacta 120
 gatgctgtca aatctgatcc tgctcttcaa ggcgatgctc ctctcaagt gaaagcgtag 180
 ggatggctgt tcctggctaa cgtcatttca cattttgccg cgggtgggtat ggactggttt 240
 cttgtgtcat ttgccagcaa tgcgcttgct ctgagcagaa taaatttctg gtgagtacca 300
 tcaaagtgtg aatttgaact t 321

<210> 55388
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-030-Q1-K1-F9

 <400> 55388

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 tttaaacaaa aaaaaaaaaa aaatgttatt tttattttga aaaagaacac tgccccccctc 120
 tccccctcaa accccccatc ctacttacta tccccctctt tcctccccctc accttaattt 180
 accacttttt tttttttttc acccttattt aaaaacctct ttattttcta aaccattttc 240
 cttcccaaaa cactccccct tccccactct tactcctttt ccaacatccc ctctctctat 300
 tccctctcca ccattttctc tctccccccc cccttttttc cctccccctt ttttcgtccc 360
 cttatttttc 369

<210> 55389
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-G12

 <400> 55389

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 aagaaaaagg agacnnggga acccaaaata aaaaaaacg ggccggcccc ttaaaagaac 120
 caaaattacc ttccccgtca ttccaacc 148

<210> 55390
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-030-Q1-K1-G2

 <400> 55390

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 gcaccgaagc aggagcatca acagcttctc aacaagattc aagccatgat tcaccgcag 120

ggcagtcttc gacagccaaa gcgacatgg aaatcgatgg ttgatttgta ggttccaaaa 180
 tggcaagaaa gggaatcccc tctaatacatt atgtatactg tggtcagaat gtccgctata 240
 tattgtaaca tcaaaaaaag cacctccagg cctgaggggtg ttactgctaa tgcgtttggg 300
 ttacttgctc ttgtaatatg catacacatt tagaactcat gcagccattg tgtgtgctcg 360
 aaccggtgga tcgcttgcc tgtgtgtgtg actact 396

<210> 55391
 <211> 471
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-G8

<400> 55391
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 aataaattgt aaaatttaaa aagaagaagg ggaaaaaaat aaaaaattaa tangtttttt 120
 atattttcaa tttttccttt cttttttttc catccttaca cctcttccat ttttcttttt 180
 aaactccttt aactaacccc cttttcccat cttttcacct tctaaatcct taaaccttcc 240
 aatttacccc tttttccctt tttttccctt ccccttttgc cctttttctt ttttattctc 300
 cgactcttct ccttttccca ctttttacca ttcttttata tttattttca ctctcccttt 360
 tccccctttt ttttccctt ttttctctg ttttgttact cctttccttc ccctttttat 420
 tttttcactt tctagcgcc cctttccctt ttcttttttt cccttttttt c 471

<210> 55392
 <211> 110
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-H3

<400> 55392
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 ttaccatact ccatactctt aactatatta ccgttttttc catactacac 110

<210> 55393

<211> 274
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-030-Q1-K1-H4

 <400> 55393

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 agggcgggcg tcaagaggca caccgaccct ggcttcttca ccacccctct gcaggacggc 120
 atggtcggcc tgcattgtgt cctcgtcaac aacaggcaga gcggcggctg ctgggtggac 180
 atcgtcctcc ggcttggggc gctcattgtc aacatcagtg atcttctgca gctcgtgacc 240
 aatgaccggc tcatgagcgt ggagcaccgg gtgc 274

<210> 55394
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-031-Q1-K1-A10

 <400> 55394

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 aaggttacat gctcccctaa acgacggggg aaaggagtta cagaccaacc tgattgctta 120
 ccagaggatc cactttatgc tctcctccta ctgcacacga cgatctcttc tgcgaaagcc 180
 tttcacgagc agctgtatgt ggcggacatc accagcagcg cgttcgagcc ggcttgcatg 240
 atgggcaagt gcgaccact gcacggcaag tacatggctt gctgcctgat gtaccgcggc 300
 gacttggcgc ccaaggacgt gaacgccatg gtggccacca ttcaatacga atcgcaccat 360
 ccaattcgtg gac 373

<210> 55395
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-A2

 <400> 55395

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ccaagaccag ctcttctgtt gagaagagct acgagctgcc tgacggacag gtcatcacca 120
 ttggtgctga gcgcttcgc tgccctgagg tcctcttcca gccatccttc attgggatgg 180
 aagctgctgg tatccacgag accacctaca actccatcat gaagtgcgac gtggatatta 240
 tgaaggatct gtatggcaac atcgtcctct ccggaggtac cactatgttc cctggcattg 300
 ctgacaggat gagcaaggaa atcaccg 327

<210> 55396
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-A4

<400> 55396

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 ggccaagtgc atatacagct tgctgcgaag gccttgccca tcacaggaac taaagctgac 120
 cttccaaaaa aatctagaaa agaggatctt gagagtgttg ctggcatggc ttcgtcagca 180
 acagcaagcg gtgggaagtt tgacgagaag ttgcctggct agaaacctgc aaagcacctt 240
 ggccaacata gaaagctcct cccacttgct gaggggaagg gaatggtcag ccttgagaaa 300
 cagcagaatg acaaaattct gagctctcta cttgccaaaa actctgatga accggttgat 360
 gtcatcaagg caattacaat gtac 384

<210> 55397
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-A8

<400> 55397

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 catggtggtg gagacctttt gtgagtatcc tcctcttggt cgatttgctg tccgtgacat 120
 gaggcaaacg gtggctgtcg gagtcatcaa gagtgtggag aagaaggacc caactggagc 180
 caaggtgacg aatgctgctg ccaagaagaa atgatctatc tggctggtga ctaaagctgc 240
 tgccaagaag aaatgatcta tctggctggt gctgtgcttg cttgttggtt acctcgtgga 300

agcttaaaat atctcggtt gttgacatcc ttgcagttgt cgcgtgaaca agtaatctat 360
gatggcaatg gttgcctggg aatgaagtat tattactttc ggtgaaaccg tgatgctatt 420
aagact 426

<210> 55398
<211> 256
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-030-Q1-K1-D3
<400> 55398

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tcgactactg ccctctcttc cccacgggcc gcgtcgctctg ggaggtgcgc gtggactgta 120
ccgtcgcgct caagtggtec cgcggcctgg tgctggccgt gacctcgteg acgctcttcg 180
cgggggtcac ggtgcggcat gacgaccgct gcacctgcca gtcgttgacg ccgaccaacg 240
ttaccgcgcc ctttga 256

<210> 55399
<211> 153
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-030-Q1-K1-E2
<400> 55399

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atttaaaaaa aaaaaaaaaa 60
taaaaattat ataaaaatat atatattaaa ttaaaatata ttttaaaaaa ataaaaaatt 120
taatttcttt ttcccttcat ttaaaaatta taa 153

<210> 55400
<211> 461
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-F7
<400> 55400

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aaanaaaagt aatgtttttt ttaaaaaaga aaaaagcccc cccaatcnn nntntatctt 120
atttctttaa tctatcttca actttatttt cttattttta ttttttatat tttttttttt 180
tttattnta caactattta tattataatc atttttacct ttttattctc tttcattcat 240
tttatttcct attattcctt taaattataa atcaattttc ttttttcatt taatcctatt 300
accatatact ctttaaaaca tacttataca ttctccttta taocctttca atttttacat 360
atctcttact tcatttccaa ttattttcta ttccaatttc aatcaatcta tttatctatt 420
catttttcta ataacttact ttatctttaa ctttatatat c 461

<210> 55401
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-D1

<400> 55401
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accggcgacc tgcttcagag atgtcaggca ggggcaatgg cttcaagggg ctcgggaagg 120
gctgcgcgaa tcgtcacccg aaggtgctgc gcgacaacat ccatgggatc acgaagcctg 180
cgatccggat gctggcgagg aggggtggcg tgaagcgcat ctccgggctg atctacgagg 240
agaccgcgg cggtgtcaag atctttctcg agaatgtcat ccgcgacgct gtgacctaca 300
cggagcacgc ccgtcgcaaa accgtcaccc ctatggacg 339

<210> 55402
<211> 334
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-A2

<400> 55402
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ttcctttcat tactttcacc ccacataagc tatcgatata ttcaaactta tcttattttc 120
cattaaccct ttcacccata atcactatta catcaaaacc gattgcttaa caaaattttc 180

ctccatatat tgccccctcc ctcaaaaata tcatttctgc attccttaat atcctttcca 240
acaatatata ttgcttactt tgtacaccaa ccacatacac aattatttcc caaaaccctt 300
tttttttttt ttttcaattc ccctacaaaa attt 334

<210> 55403
<211> 346
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-A3
<400> 55403

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tttatctgat atatgtgaac aatccantnn ttaactccgt cagtagagat ggataacttc 120
gtcgtgaatc aaacaagatg atggataact tcattgtgaa tcaaacaaga tagcctttat 180
gaggggaatgc aggttggaag tttggttcac aacgctactt tacacatcac aagattattc 240
acgatttttt caaccttttt gttcgtttca atattgtaga aaactactgt acttaatgtg 300
accacatata tgtttatctt taattgaaac ccgatagtat tttttt 346

<210> 55404
<211> 433
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-B1
<400> 55404

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gacggcttct tcggctgggc gcaggtcgga gcccctgctg ttctgtgcc tgtactcggc 120
gccccgcggg tgccaccggc cctgcatgga ctgcgtcaag tccagcctta gcgccgaccc 180
gcctgtgtac cagtgcattg accgcgtccc ctactttttt ctgcgcgcgt tcaccgcgcc 240
ttccgtctcc gccgcgcggt gaccactctg ccgacgccta cccgcgcact ggtctcttgt 300
tgctctttga gtcttgacct aaccaccca ccaccaaacc ggtttcaatt cttttttcca 360
acccccaccc gctggtgaat tagtgtactt ctaacttttt aaccacctt tagattaatg 420

gtttttttttt ttt

433

<210> 55405
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-B3

<400> 55405

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aattccatcc atatccatat ctactttttc catacaaaca acttatcttc tctatcccta 120
tagcacaaaag ctctcatatc tctacatcca tttttctctt catagtgatg catcatcgca 180
tctataacaa tatc 194

<210> 55406
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-B7

<400> 55406

gggggggggac gcacgcgttc tcccacgcgt ccgcggagtg tgatttcgct ttacaatttg 60
atcaacaata acatggtaaa gaatgatcgt gagaggggtg aggattctaa accagcctcc 120
attccaactg ctgccggtgg agggggagct aaatgagctt ttgatcactt attgatggcc 180
aatatatggg aggaaacgtg attacatgct taccacgggt gtgctggaac caaattgcct 240
tgaccttgaa tggatatttt catgtttact tcacgtatga taaggtcaac ggcaagaaaa 300
atcatttacg ttgtttgata gcattagatc atacctcaag ttttctgtat attcttcgat 360
gcttttttaa tctgattcat t 381

<210> 55407
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-C10

<400> 55407

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anctgccaaa agaaaaaagc gccccacacc aacaaaatct accacaacaa ccaaactaaa 120

aacaaaaaaaa aaaatcaaaa actaaaaaca aacaaaaaca ataccttact ataattacaa 180

tcaacaaaac aaaaaaaaaa aacattatat agtccccctc tctttaaaaa cccattttca 240

ctccccactc ttttaatcct ttttaactttc ttttaacttt acataaatct atttaaacct 300

cc 302

<210> 55408

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G11

<400> 55408

ccacgcatgc gtccctcact ctcgtcgccg gttggaggaa taagacgacc aagcgactg 60

cccggaatc tggcgatgac tacctogagc tcggtagtaa gctctaccgt ttctcgcaac 120

atgatgacca agagcaatat acaacgctgt cattctcaat aggcgtacta tggagtaaaa 180

ccaatccacc accaatctac atgctccgat cttgtcaagt atatggaaaag aaaagagaag 240

aacattttcta gcattgtctg acaaacacac atgacaacag gatccatgac agttcagcaa 300

tgaacgttac tgtcctgagg ttcactgaga cagaaagggc catgattgac aattctgcga 360

gctagtgctt cacatttgac cagatttgt 389

<210> 55409

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G3

<400> 55409

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aaggaaagcg ccgaagacga acacaagagt ggcctctccc acccgacgct ggatgggctc 120

ccggttagtc ggttacgcaa cgcggtgaga tcacttgggt ccgttttgag accgcagagg 180

agacagttac cagtatagca catttccttt aaccgcccac gtaaattcaa ggtcgacaga 240
ccacacacac agatcattga tagcgcgtag agggagagga aggtacacag acagaaatgg 300
aagagagt 308

<210> 55410
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G4

<400> 55410

aaaaaaaaa cactaattaa taaaaaaaaat aaaaaaaaaa aaaaaaatta taaaa 55

<210> 55411
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G5

<400> 55411

cggacgcagt ggagtgggag ggcgtgccca cacgctatct taaatttatc tgggaccaag 60
ggaccat 67

<210> 55412
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G6

<400> 55412

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cctcatgccc taaagcctga aatggatgag gggctctggc aatagcagga ggcctacgga 120
gggctgcttc ctaaggctag ttatatctaa acagcagagc gtgtaccatc cttaatcccc 180
cgggatggag ggccaacagc aacaagatgc accatcatct tacttcttta ac 232

<210> 55413
<211> 379
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G8

<400> 55413

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gggttgctcg attggaggta ccatacatcg cacgaaggcc agcgctgata aattatagta 120

ttgaccgtcg gttgttgcca cggaattgct tgatcaattt tctcagggca aaggggttgt 180

tcaatgacga ggctagtttc ctttctgtcg ccgctatagg cgatgagaaa tttcggcgcc 240

gatacgtgca tccttacgag gaggattttc caggccttgc tgctgctttt gcttctagct 300

gtgctggaga acaccaatgg gaacgggttt attaggatga caggcgaaaa ataaagaaag 360

ctgacaattg gtctggaaa 379

<210> 55414

<211> 125

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H12

<400> 55414

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gagtctaca tgcagggcat ggacattatt agatagtga gattcatgta catcttgaac 120

atcta 125

<210> 55415

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H4

<400> 55415

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agaggacgag aagattgcgt ccaagctgcc ggccgatgac aagaagaaga tcgaggacgc 120

catcgacgcg gccatcagct ggctggacgc caaccagctc gccgaggcgg acgagttcga 180

ggacaagatg aaggagctgg agagcctctg caaccccatc atcgccaaga tgtaccaggg 240

cgcggggtgaa gacatgggcg gctctggcgg catggacgag gacgcccccg ctgggtgcgg 300
ctgccctggc cccaagatcg aggaggtgga ctaagcgggt tgggtgtcagg tcttgagcgt 360
gctgcagttg cttgg 375

<210> 55416
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-029-Q1-K1-H5
<400> 55416

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ataccgggat tcaataaaaa atattagtgt taataacaat ttacatctac aagttttaag 180
cctacacagg ttatgaactg aggaagccaa caatcttcca ttatggatct gaactctgag 240
ttattacact agatttccaa aaaaaaatac tggatgtgaa ctgcatctct atggaatgcg 300
aacgaaatgc tgctgcacca atcatttttc ttttcatgaa gcttcggtaa acaccggtat 360
tataaaattt gcaatggtga cactatttga atggccttct gacaataaag aatggtttgg 420
cttaaatttg accaactg a 441

<210> 55417
<211> 221
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-029-Q1-K1-H7
<400> 55417

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cctgcctact agaaataact tcttctcttg cttactactc ctagcactct tctactctt 180
ctacattctc ttctacctat tatacaatct aatcatacac t 221

<210> 55418
<211> 249
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G1

<400> 55418

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tcattcttaat cttgtagtgg ggaataatgt tcctctatgt ttcaatatac gtgatgggtc 120

ttacatgccca accctgcgtc tttttcatca gtattctgat atcatgaaaa aatttcaagt 180

ggatagaggt tctatcaaaa tttgtctatc tggcccaaac ataatgtgtc ctggggttgac 240

tttaccttg 249

<210> 55419

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H8

<400> 55419

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gatcttggtg ctgcctaatt tagcacctgt tacacttccg cgagagggtt ggtcagcaag 180

gtgatgagat gcattgtgac actttagtgc attttctgga taatgaacct gctgccctga 240

gcgtttgtca gcttgcgttc tgatcggggc ctgtaatttc ttttttgatg tcctctggac 300

atggatgggt acaactttac gcagtgtaac ggaaacggga ccaaattgatt gaaattttta 360

tactagtaag gtgttactgt agttttccca gttggattt 399

<210> 55420

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H9

<400> 55420

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ggatacttca ataaggacca atggactacc acatcatatt catttatgca catttagaat 120

atcatctaaa ctaacctctt tcaattatca gattccaact ttgctctccc actctgatgc 180
 tccatcttca ctatcatgaa ctaactcata ttccttcact gtcgaacaca ttccatcttc 240
 ttgccacata aatcctagta gatcgcttac tatacttact gatcaagcat catcctttttt 300
 ccaatcggcc taataactat caatacttca tataaaactt ta 342

<210> 55421

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E2

<400> 55421

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 gtcagctgta cagctgataa ggcacatcgc caaggcttgc aatgcgaact aaactgaatt 120
 ataatgcccc ttcatggagc gcctctgctg gcatggtctt caataatcat gcttcactca 180
 cgccaagcac atctacatct cggacatgat gaaccatgat atccagaagg cgacactcat 240
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<210> 55422

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E4

<400> 55422

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 tcactctgcc tccgctgggg gtgttcctca agtacgggtg cggccacgag ttctggatct 180
 gcctcctcct caccttcctc ggctacatcc ccggcatcat ctacgccatc tacgccatca 240
 ccaagaacaa ctagctagtc atccttgccg acgacgatcc atgtctctgt atctgcgtct 300
 gttcatatgc ctgatgccga cttgtgctgg atgtagttgc ttgaatttaa tctgtttttg 360
 ctaccgtacc caccatcatg atcatctggc aacgcgacgc aattatcatt gttattacaa 420
 gttcacagat tgattcattc gctgctttt 449

<210> 55423
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-E5

 <400> 55423

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 ctcggttgat gtgttctatg taagaaagta actgtattgt ttatgcagat accttaccat 180
 gcatgcttta agtagcatat cataatctat aatgaatatg ttttatgtat attactataa 240
 taaatctctt tttttttttt acttattata tttttttatt ttttttctta ttatatatta 300
 ttcttttata tctatatt 318

<210> 55424
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-E7

 <400> 55424

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 agaagattat ttggcacaaa atgcattcac cccatatgat aagttctgcc cattctacaa 120
 atctgttttg atgatgcgca acattattca cttcaacaca ttggcaaatac aggcctttgga 180
 gcgggcagct ggtactgacg gccataagat aacatacagt gtcataaagt atcggatggg 240
 ggatctatatt tatcgcttag tatcccaaaa gtttgaggat cctgcataag gcgaagaagc 300
 tttgggcgtc aagtttaaga aactgtttga cgaccttacc actgggtttc tctacctaat 360
 agatgatgca cggatgaactg ctgtagatatt tgtgtatgac aataatggct gtcaaagtgt 420
 tt 422

<210> 55425
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E8

<400> 55425

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acgctctgcg tcttcgatgc ggataaggca aacaagttga agcaatctct tacaccatgt 120
ttgaccgtcg aggaggtctg attggatata tggcaacatc aggttgaact accaaagctt 180
ctttatcagt agcagagtat gctactctat gtacttttgg aacctaagct attatacctg 240
tcagtgttgg atgtgtggat cttgca 266

<210> 55426

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E9

<400> 55426

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agtctgttac ctatcccgaa cgatcggagc ttagtgaacc aaccatccgg gagtgggatg 120
ccaaaaagac acaagctcaa aatgatccac ctgatcacca gagaaattgc gaaactctct 180
agcctatcac tcatatccat catcatagga gccgctacat atatgatctt cactacacaa 240
ggaatcagat atcacaccat ctttaccagt ttagcgcctc accagagcta tgcagatcat 300
cacctgatct caaagtgaaa aaagccagga tactagcaca tacgctggct caggtgcata 360
cagacacctg accacaactt tgcaacgact tgtacctgcc tagtcccaa gcatttgatg 420
gatgatcaag atattcaatg tgtccat 447

<210> 55427

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F3

<400> 55427

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ggcctgtcta cgtgctacct ggggccgcaa cattggcctg atgctgctgc catgtagccc 120

agcgctaccc cctcggcttc accgtccgcg gcggaacga ctgtgtaaac tacatcgggt 180
gctagctcct actgtggtgc gtgctttgat gactataggg catgctttgc gctggcatct 240
ttggt 245

<210> 55428

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F5

<400> 55428

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ctccttcgaa gatgaaagca aggatatcat agagatggaa acggaggaag cctatgagat 120
ggtacttaat gctgtgctga aatgggtgga gagcaacatg aaccccagga catcaagaac 180
attctttgtc actatgtcac ccacccacac aaggagcaga gactggggcg atgatactga 240
cgggaaactgc tacaaccaga cagcccccat cgaggacctg tcctactggg ggccagacac 300
cagcaagggc ctgatgcgcg tgatcggaga agtggttcagc gcgtttaaga tcatgatccc 360
cgtggggggtt gggaacatta tccaactctt cgagtacagg aaggacgcgc acaccagat 420
ttac 424

<210> 55429

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F6

<400> 55429

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acaattgtgt gtaagtgtaa ctgtgtctga ctctatatga tgttggcatg tgcattgtgc 120
tatccaccga tcttgatggc ttacttagac ttgagaatac ttttaggttg caatttcaaa 180
ctgcactatt attctgtaaa ctgtgagtta agtattacat gtactgttaa actcaataaa 240
taa 243

<210> 55430

<211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-F7

 <400> 55430

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 gtctttattcc attggcatct ggtgggtggc aagaaactaa tcaaggagtc tctctcttct 120
 cattctctgc gtggaggact gtttagctgt agctgagtgg catgctttcc agaacataaa 180
 ttggcggaag agaatttcga tgctaccact ttgcgagaag gaccgaacca actcaataac 240
 atcaaaactta gatactgcag cttaccaact ttgtcaatat tgaagattga agagcatcta 300
 gat 303

<210> 55431
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-E11

 <400> 55431

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 gccagtccat tctcttacca caggtttcgg ggggaacccaa atgcgggtca caacacttaa 120
 gactacaata cctgcccggc aagtactctc cgggcacggt cagcacactc aagctgaata 180
 tcccacccag cctaattgat gccaacgca atatcaatct aactccatg cgctacatat 240
 ctcgatcgct actaccctga tggctagcag taaccaggtg caaaagctct gagaatatca 300
 gctgaggata cttcaccttt acaagcctct tgatctagaa tcatacaata tgcattcttc 360
 attggtcttc ttaccaacat ttcttgaatc atttatgagc aatacacaag aatgctttag 420
 aagtattatt ac 432

<210> 55432
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-C2

<400> 55432

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gcaagatgca caagatggcc ggcatctcgg atgcagacat tgatctcgac gttcttctct 120
aatactacga cgacaagtct tactataatt ctaaattccat gatcaacaag tctcgcaactt 180
gtcacgcact actaggagat ttctgcacgc ataagatcaa cgaggacac gacatctata 240
cgctactgga aagcagaccg ggcaactact acatcctatt acaagacgaa cacattatct 300
agatctaaga aatttgttcc tggttac 327

<210> 55433

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C3

<400> 55433

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aagcttttgt ctatgttgtg catgtgtaag aaaatgtatt tgtatggatt gaagttcgtg 120
gcgaaagaaa aagaagtaga aaaggactcg aacgttttta tatttcgata ggaatatatg 180
cgatgtattg tttgatgtgt gcgatttgta gtttgataaa ttatatattg gttgatgtgg 240
tgttaaaaaa aaattttatt ttttttttta ttttttaaataa tttataataa agggttgcct 300
ttttttagga tccaatct 318

<210> 55434

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C4

<400> 55434

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gcgctcctcg ttggcgccac tggcgggtgg ttctgcctct ggtctggtgt gtttgtgtgt 120
ggtcacactt gccagctagc agaggcgcct gcttgtacct agattactgt ttccattgtc 180
gtcgtcatcg gctaacattg tcataatgtc agtttgggta atggttagatt aaaaaaaaaa 240

aaacaaataa aaaagaaata atacatac

268

<210> 55435
<211> 316
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-029-Q1-K1-C5
<400> 55435

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gctgcacccc agggctgtta actgccgcaa gaagaagtgt ggccacagca accagctgag 120
ggcaaagaag aagatcaaga actgaagctt gccaaatcgg ttccttgcat ggtttgcgctc 180
aacaagacga agtttcaaag cttttgttgc tgcataatgct gctgcaaccg tttgcactcg 240
taactcgtgt gttcctgttc agggctcttca gcatgacata aatcgtttca gaaggtctag 300
catattatta ctaata 316

<210> 55436
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-029-Q1-K1-C7
<400> 55436

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aaaacccccca gtttatgacc atggcagagc gtctggggaa tgctcttatg caggatcctg 120
ctatgtccag tatgctggaa acctttagta gtccatcaca taaggagcag ctggaagagc 180
gtatgtcttg cattaaggaa gatccagcta tgaagtcaat tcttgatgag ttagagaatg 240
gtggcccttc tgcaattatg aattactgga acgaccctga tacttcttaa aagattgtgt 300
aggcattggg agcttgcttg tcattttgtg 330

<210> 55437
<211> 148
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-029-Q1-K1-C8

<400> 55437

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ggagcatttg aaatgggacc gggacaatca cgcattactc caatggccca agtcacaaag 120

gcaattctcg agaaccctaaa tgacaaca 148

<210> 55438

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D1

<400> 55438

accgtccgaa atccccgggc ggaccacgc ctaccggcca cttaccaaca cctgggtgct 60

catgccctgg aacttcccaa caatgctatt cgtgggggtgc aagggtgctgg caatctgcat 120

gctgcaccac tgctattcaa cgtattcact gccaatgagc acaaaacgcc gtggcgccacg 180

tattgcttga aggaagatga accaaggcgc attcaaaaag gtgcttgaga agcttgcttg 240

tgaaaggtag aactcttggt aatccaattg acttgaaaca ttttgggcta aacatggcac 300

aaataaagtt tgttaacgat caaggtaatt gagaaaaggc tttgctattg ttttgccact 360

ttgtagggtg ttattcttca attaggcctg atttattggc tgtatgtcta tgtgcccac 420

ttcagacatt tgtaggaatt agtttgttct cttgtttaag t 461

<210> 55439

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-029-Q1-K1-D3

<400> 55439

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tgcttggtta taggaagcag gggccttggc aagctcaaga ggggtgctctt gggaagtgtc 120

agcgactatg ttgtgaacaa tgcaacctgc cctgtcaccg tcgtcaagtc aacaagcacc 180

gaagggtgat cttatcgccg agatgcctgg atgtgatgtt gtaataaaga tggttggcct 240

gatgaagaac atgcactagt ttctagctat ttgaaacatg ttgaacgagg caattcta 300

gtaataataa tagacaaagt gccttatgaa ggacatgggt gacatgcctt tgntgctgta 360
 tgagtgatgt ttatagtttt gagggtttga agatgtggat catttgc 407

<210> 55440
 <211> 90
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D4

<400> 55440

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 gagagataca taaaaattta ctcttgaaat 90

<210> 55441
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D6

<400> 55441

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 gggcttttgg agctagggac caatgaccgg ttcaggagcg tggagcaccg gtggccagcc 120
 aacatgagca gggacacgga caggggtctac gagggcgtct tcttcaacac tgacgttagg 180
 aggtccgaga ggatgtacgg acccattcca gaccccagca agccccgat gtacaggagc 240
 gtcattggacc gagacttcat cgtatagtgc aacaccattg gactcgatgg ccgttcgctt 300
 gaccacttta agctctagct ggctggctgg gtacgttttc 339

<210> 55442
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D7

<400> 55442

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ttgtttgttga cataatagca gtgcatgttg ttct 154

<210> 55443

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D8

<400> 55443

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ttcctctgcg agaagaaggt cagaaaggtg gacatgcttg actgcgtgac catcctccgc 120

tccgagaagg tcaaggacga gcttattctc gatggcaacg acgtcgagtt agtctctcgc 180

tccgtcgtcc tcatcaacca gaaatgccat gtcaagaaga aggatatcat gaagttttttg 240

gatggatatct atgtgagcga caaggggtgtg atcgaatagg ttcagtgtgg gtcaatttgt 300

gttatctttt gagttgggat tattgtttgt tttgctatct ctctagggtt ctttgttatc 360

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<210> 55444

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C10

<400> 55444

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ggcgcaagac ctgaaggggc ccgctaaatc atgcctagac tgacaagtct ctagcgggagc 120

cccatccacg gagatcttca gaaatgaatc ggacgataaa tgcactatta ttcactcaca 180

gccattctgc attgggactt ttgatggtac ttattagaaa gatctgctgc cttctgtagt 240

atctatattc cataacaact gcgagaccaa atctttccga tgcccatggg atgctagcta 300

aaattagact ctaacttata cgatccacta atc 333

<210> 55445

<211> 320

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-H3

 <400> 55445

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 gctttgcttc ttcttcttct tcttattttc tctcgatcca tacggtttgc acatggaatt 180
 atatcagtaa caaattagag tagcttacta ttagatttac agccagacat gtcagtact 240
 tgctgtact ctcttcgaga tgggaatcga gcgtgtagcc ttttgagagt naanaaaaat 300
 ataaaaataa aattaaatat 320

<210> 55446
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-A1

 <400> 55446

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 actataaatg gcccgatgcg tatatctgca ggtggcatga ccagcgatgg ctgtcgaacc 120
 ttgaattaat agcacatgat gtagattaga gtcagcgtgg ctagagaatg gggattccaa 180
 cgcacgtcag gtgctaattgc tgttcgtgat gtcaacatga tcatatgtga tgaactgctg 240
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 tcacctgcta atatagctgt ctgatgaaca gatggatgtg attactgata tgctctcatg 360
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 tacgcgt 427

<210> 55447
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-A2

<400> 55447

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ttctactcgg cttgcccgat gaatgacctt gtcactgacg gcacgttcgc tctcgttgag 240
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ttcaagtggc cgagaccgct taagctgacg ccgagaagct tcactacgct tgaatggacc 360
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<210> 55448

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-A3

<400> 55448

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ctgtgttacc ggatgccac aaattaacag accaagagaa tggaaatgat gcagtataga 180
gagtggatgt tagcgtagct agtcgttctg ttgcatctga cgcgttcact gaaaatcagt 240
ggctcagacg tgtctgcttc atcgacgcgc gtatagctgt gaggcatagt gagcaatagt 300
ttcacgaaca tctatcaaga atcacacgaa gatgcagcat gaggcaaatt tgtttcaaac 360
tataaaccac gatctagggc taagcccttt tttctttttc cccacgaatt ttttgatgta 420
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<210> 55449

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-A4

<400> 55449

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agcttatgct gtagaacctc gactagatct atcgacatcg aaccagctg gagaaaaacc 120
 tatgacgaat atgctccatc atgattaccg tagcttgaat ctgggactca gcatctaacg 180
 cagcactggt gaaagcacat tagt 204

<210> 55450

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-A7

<400> 55450

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 tcatgtcaac tcttcccagc tgtttactgc gatcggaggt ggcacacctgt gtgctaaggc 180
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 ctccgaatgg gctgacacct gtgttgatgc ttattctgcc gctgctctga gggctagtcc 300
 atatgcagtt cctggcttgc gtgctagtgg gtttatgggc agtcagggtta ttctgccgtt 360
 tgcacatacc ttagagcatg aagagtcc 388

<210> 55451

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B1

<400> 55451

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 caccgcgggg aagaagggtg tgctcttcgc cgtgcccggc gcgttcacgc ccacctgcac 120
 ccagaagcac cttccgggggt tcgtggccaa tgccggggag ctccgtgcc aagggcgttga 180
 caccgtggcc tgcgtctccg tcaacgacgc cttcgtgatg cgcgcgtgga aggagagtct 240
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<210> 55452

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B10

<400> 55452

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acataaagtg tgtgataaat tatgaggggtc cgggaactct cgaagatggg attcgcatga 120
taggtcgaac tggccgtgct ggtgctagcg gaactgcatt cacttttttc acacacgcaa 180
atgcaaagtt ctcaaggaat ctagtgaaga ttctgcgaga agctggccaa gttgtgaatc 240
ctgccttaga atccatgtcc aggtcttcga actcaacggg aggaggcaat tttcggtcga 300
gaggcagagg tgggtttggg aaccggggcc atatgtctgg atcaaatacc tttcctttaa 360
gaagaagaaa gccatattga tgtgtgcaaa agaactgtgg gagtatggga ctatttgtat 420
actactcggg attaagtga ttcttttggg aaatttctga gaaatttccc 470

<210> 55453

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B2

<400> 55453

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tggcagaggt ggcgagcgac gaggaagagg catacgccga tgacacctac tgatcgctcc 120
tgcatgcagc tcagcagctg ctcatcatg gtgttcagtc cttcgtgctg catacatggc 180
gccgccgagc gtcgagctt aaccggtgcg tgtgatgact gatgttgat ttgcactctt 240
tacgctgttt gtataattaa agtctgtaca acgctgtaca attgcagatt gccttgtaca 300
gatgaactag cgtgcagtga aaaa 324

<210> 55454

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B5

<400> 55454

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gcacttgctg tagaacagta caatgcattc tattaatact attagcagtg caataatatg 120
tttcatacat tctatTTTTG aagttccaga catcattaat caatttataa cttaatTTTat 180
gaaatggaga tttatatatt gttcgTTTgt ttctatgttt acatatgttt tttacgg 237

<210> 55455
<211> 273
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-029-Q1-K1-B8
<400> 55455

gctagggTtc cgtcctcgat ccgatccgcc gagtgcacac cacctttccc cactccgatc 60
gaatcgatgg ccgccgaggg cgagaagaag atgataaccc tcaaaagctc cgatggcgag 120
gagttcgagg tggaagaggg ggtggcgatg gagtcgcaga ccatccgcca catgatcgag 180
gatgactgcg ccgacaacgg catccctctt cctaacgtta actccaagat cctatccaag 240
gtaatcgagt actgcaacaa gcacgtacat gcc 273

<210> 55456
<211> 204
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-C11
<400> 55456

ggggaataac tgaacatca agatggTgtt tgcttcggag ttttctaaga gggggTgggg 60
ctaaacaaaa ntcantatt atgctatgca ttcanaagat gatgctaaac tgaataagca 120
catcaatcgg atttttctat gcactttttac tatgtttgta ttatagaaat gcaatgcaat 180
ctatgcacta aaacgttcaa ctct 204

<210> 55457
<211> 210
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-027-Q1-K1-D12

<400> 55457

tcattaacag tctgtctcaa cttgtaccaa cgcacatcag cctgaaaagt actttcacat 60
ctaccattcc gatagactca aagccttcgg acctatatct gtgtctctca accgtgccaa 120
ccataatcaa cagggtcattg tattctcttg tatcaggcaa attttaatat aatatatgac 180
tgtgttaaatt attattatag actctccttc 210

<210> 55458

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-D4

<400> 55458

acaaaccgaa ttgcctaacc gtttccattt ccatgcattt ttgcttctat tttataccca 60
acatctccag caaaaaaagg ctgtagggcc aatgactttg ttcagcgccg ctggacctta 120
tccattttct tacattcgcc tcgtactcgt aagaactctt ggtggcacca tgtgacattc 180
catgtaaatt ac 192

<210> 55459

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-D5

<400> 55459

aacaaaaaca agatttgcaa ggctgagcta acgccctctt tttatcattg aacagccaaa 60
cacaatgttt ctctgtacaa acccaattgc ctaaccgttt ccatttccat gcatttttgc 120
ttctatttat acccaacatc tccaacaaaa aaaggcttta gggccaatta cttttttc 178

<210> 55460

<211> 103

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-027-Q1-K1-E10

<400> 55460

cactcttccn tcctctcaaa acagttcggt tactaagacc ctgttctacc cccggggctg 60
ttttttatga aaggacgctc gctcaaatac tncntcttc tat 103

<210> 55461

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-E6

<400> 55461

aaccagttga atcgtaaagg acttcaggca agtgtttctc accatttttt atttcccccc 60
caaagaatat atatgagagc tgtgtatcta aggtagaaaa taattaggct ttagaacaca 120
agctgctgta gtttttgtca gttctcacca tcttttcagg aacatcatat tcagcaaacc 180
aaaatcacgt ctcaaacctc attgtcacac ttaatcatgt tcttcttagt cctaagtttc 240
acttctgttt tttaatctca tgattaaata tgaacaaact gaattgttgc aacatggtat 300
tttaaaatt 309

<210> 55462

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-F4

<400> 55462

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catctctgtg cctgccaaag cggactttgt gcgcccggag ctccggcagt cttcctagat 120
tgaggcagtg agcggagagg gagagggaga gagaaagaaa ggatttcgtg tcccagagta 180
gaacagaatg ctgtatgttt tgtgcgactg tttgtaagtc aagtctgaac tgtgaaccta 240
tgtttgcttc tatcaaaaga cccggaaaaa gcctgggca 279

<210> 55463

<211> 136

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-F7

<400> 55463

ctggctcgcg ctcncaact cctgccccgt ctggcgccac gagatgcccg ccgacaacgc 60
cgccccgcgc gctgacgccg acgacgccgc ggacgaggac gccagggtcg gcctcaccat 120
ctggaggctc cccggc 136

<210> 55464
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-F8

<400> 55464

ttctctccac ctttccgttg acaatttgtt gttgaaccat taacatccaa tggcggagtc 60
atttaataaa cagctggggg agtaataaca ggtccttgta tcaaatatca atttaggtta 120
tgaagaaata gttaatactc aggttcttgc tttcaatgcc cactctgtaa aaaattttaa 180
gaacttagcg accatcgtgg aaaatttcac ggattaattt ctgaagtntg atctgtacta 240
tgaccagatt gttgtcctcg agactaaaac ttgctagact gctatccacg acattctcac 300
gacacactgt ataccgtctg cattgtcaga tgaccttaac gcctac 346

<210> 55465
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-G9

<400> 55465

attttaaact gtgggtattgc aatgactaaa gtatattata gtattttcaa aaaaaaaaaag 60
ggggagggaa aaaatttttt ttt 83

<210> 55466
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-G2

<400> 55466

cactcgtccg cggactcgtg ggtgaatatt caaccgcata aaaaaataaa aaacaaaaac 60
taaaaaaagg aaaaaataaa aaaataacag ggccatttta aaacgagacc aagcgaaca 120
aacacacaca tgcaactaat taccaaaatc tataagatca cctacattca attca 175

<210> 55467

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-H1

<400> 55467

tccatgacac agcatacatt aaagaggcca tacttaaaat ttgggttcgaa ttaatctagc 60
actggactac agaatacttc aaacttggtc aaattgatat cgatgactct gtatactaac 120
tgatgaatac taaatcaatc ctcaaggata tcaaagcgct gtatataagg tacgtaacaa 180
gctttgatgc cactgtacac catgtacata ttgcaatgct taccgtctaa cagatcctta 240
aactgaataa agattattat attattacag tagctacat 279

<210> 55468

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-H12

<400> 55468

gagaacataa agaacatgat attggagaac ctgtcaaaga tagaacatgt tcccagcggc 60
caattccatg acagaccgtc agaccccgaa gctccagagg agaaagagga ggacatggac 120
aagaggccac ctacgcgcag cagattatgg agcggaggag cttacgactc tgatacagag 180
gatcctgaca gcctgaaaag cgagggtaaa gacgtaactg ctaacttcca gatgaaggat 240
gaacccaaaag atgatctgta gaagtttcag aagtgcctcc aaagttactg agttgtcaat 300
gggatcgtcg acatgcatgt tgaagagtgg ggacgcactc gaacctgtcc gtgctgatat 360
ctgccgctgt gcatcttgta cagactgaac gttttgctg 399

<210> 55469
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-026-Q1-K1-H2

 <400> 55469

 ccacgcgtcc gggcttgtag ctgccgattc tgatgaggta aaggtccatg agacagcatt 60
 caagaaaggg gtcataccga agctgtgggtt ggaatggagc gagcactgta ctacggaaga 120
 cttcaaactt ggtcaaattg atatcgatga ctctggggac gaactggttg atactaaagc 180
 aatccgcaag gatatcaaag cgctgtatag aaggtaggta acaagctttg tggccactgg 240
 acaccatgta catattgcag tgctgaccgt cgagctgata cttaaactga agaaagaggt 300
 ggcgggtggt gcgggtggcta cattgcgcgg taacaaaaga agtcattcca agctatatcc 360
 gtggaatggc ggcttctttt gttcctagta tgtgccaaact tggggcagca gccagctgat 420
 cccagacac atttctagac tctttttt 447

<210> 55470
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-026-Q1-K1-H3

 <400> 55470

 atcactgtac tacagaagac ttcaaacttg ctcaaattta tatcgatgac tctgccgacg 60
 aactgatgta tactaaagca atcctcaagg atatcaaac gctctataca atataagtaa 120
 caagctttgt taccatttca caccatgtac atattgcact actcaccgtc taactgatcc 180
 ttaaa 185

<210> 55471
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-026-Q1-K1-H9

 <400> 55471

gttatacatc ccgagccatc aatgtggact attccagctt acctccacga gcatgctggg 60
gcttagctaa gagagggggg tacttaattt caagttatta accttcttga cgcaactccc 120
aacttgggaa aaccaaggcc ttcccgacct aaatttccaa acgttaaacc ctcaattctc 180
caagtggcac attaaaaaca atgcctgacc agttcggaat caggaccaag ggcccaaatt 240
aattggcaac 250

<210> 55472
<211> 165
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-B2

<400> 55472

aatcacaaca acacttnctt acaattctta atagcagcat cccaatatat tttttttttt 60
tgctcccgga acaaaacaat atttttatca tattctttaa atcttttcca tcttatcata 120
caactccaaa ttctataaaa tcacatcatt tcctaatttt atcca 165

<210> 55473
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-C1

<400> 55473

aataacttag tgggagaatc cttctttcct agggaaaggg tcaaaggttt aaaggctgaa 60
aaattctcct tccaatatgg tttttataaa aaacaactat gccagaactc acatgaaaaa 120
acatgtgttg gaggcacaca ttatgggaaa aacggtaaaa aaataggagt acagagggtg 180
aacacatgaa aatacaaggt ggaaggcatg tgttatgtgg aaataagt 228

<210> 55474
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-C10

<400> 55474

cccacgcgtc cggaggcatt gtcagtagtg agcaaggcca gcagcacagc agagcatcga 60
ctcaccaggg agcagcacgg cgactgcgcg gcgtggctga acctgacgct gggcgcgagc 120
gaatcgccgt cgccgtctcc gtccccggac gccgcgagct gctccgcgga ctccgagtcc 180
gggtccgggt ccggggcccg gcccgccgtc aagccgaccc cgcacaaggt gttcttctgc 240
aactttctgcc tgcgcaagtt cttcagctcg catgcgctgg gcgggcacca gaacgcgcac 300
aagaggggagc gcattgccgt caagcgatcc tcgttccacg cgc 343

<210> 55475

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-C2

<400> 55475

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gctcgcacag ctctgtctat gctacaccag gctctccgag tgtgtcaaga gaatcaacgg 120
cggctctgct ctcaacaagg accttgtctc catatcctcc atcctgttcg aaatcaagaa 180
gtattctagg acgttttagt tgtttcaccc ccttccatgt aactaggac ggctagctga 240
ggggtagctg tgtatcctta ctttctaact ggtatgtgcg actgcagggg aaacaagggc 300
atcttgcgt gggttgtatc ttcgtctgtg ttacccgact tgacccctgc ccctttccag 360
cacagaacta tgatctctaa gctgtctcca cagttatcct attctatctt ctgtcctatc 420
atctatttta aacttc 436

<210> 55476

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-E9

<400> 55476

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cttcttgcac tggtagacgg gggagggcat ggacgagatg gagttcaccg aggccgagag 120
caacatgaac gacctcgtgt ccgagtacca gcagtaccag gacgccaccg ccgacgagga 180

gggcgagtagc gaggacgagg aggagggaga tctccaggac tagaataggc tgcttcacat 240
tcagtcaccg tcagtcacga aaaactaatc atttgctgct tttcgtcgtc gtagtagtag 300
taggtcggta atcatctgtc gtggggttgt ttcgtttcta tcattaatca gcattagtag 360
tagcagctgc tgctgcgggg gcacaacaca aggggggggat aggaactgca ataccctgtt 420
gcgctttggg tgtttc 436

<210> 55477
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F1

<400> 55477

gttcgtggca acccgggagt gagggtaaac atgtgtaggg agggcagctg gtgtgcttga 60
gaacgatgag gaggggagac gttactgcat gcatggccta agaagctgtg tgcacgacaa 120
gactcctgag atcatgcctg cagttaacaa gttcttcact gaccctaagt gaagcatgtt 180
gattggcata ctactactac tacttgctac tggggatttt acactttgct ggcaactcaa 240
tatgttgggg acatccatga cctctaaaag tactttgagc gcttggtgat gacttggtat 300
atgtatgatg gtggatgagt ttgatcgtcc atgcttgatg ttcataattca tctgtcatct 360
ggatttgccg cacttcagtg ataaaattgt catttgata ctggtaatgg taccgtcttg 420
tgaagttcgc tcc 433

<210> 55478
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F10

<400> 55478

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tgaaggtgtg catgcttggt gatgccagc atgttgagga ggccgagaag atgggacttg 120
actacatgga tggtgaggct ctcaagaaaa tgaacaagaa caagaagctt gttaagaggc 180
ttgccaagaa gtaccatgct ttcttgcat cagaggccat catcaagcag attccccgtc 240

tccttggtcc tgggtctcaac aaggcaggca agttcccgcac cctggttact caccaggaat 300
ccctcgaatc caaggtgaac gagactaagg caaccgtcaa gttccagctc aagaaagtcc 360
tttgcatggg cgtcgccgctc ggcaacttgg cgatggatga gaagcagatc cagcaagaca 420
tccagatgag cgtggaactt tcttggtt 448

<210> 55479
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F11

<400> 55479

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acgccgagat ggtctcggag gcgatcacgt cgcggaagga taggacgggg tccagcagct 120
acgcgattgc caagttcgtg gaggacaagc acaaggccaa gctcccgcgc aacttccgca 180
agcttctgaa cgttcagctc aagaagctcg tcgccggcgg caagctgacc aaggtgaaga 240
actcgtacaa gctgtcgtcc gccaccaagc cgaatcccaa gcccaaggcc gcccgaaga 300
agcccaagac cggcgctaag aagcccaagg ccgttgccaa gcccaaagct tagacccccg 360
ccaaggcgaa gcccgccaca aa 382

<210> 55480
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F2

<400> 55480

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tgtgcctgct agcagccggt accttggtcg tatgcgcttc tgtgacattg ctagcaaggc 120
tctgtatgag ctctacttca atatctacgt caatgggtgat cttgcagtca aggatttcga 180
tctctccagt gcaactggat tcttgacctc tccttattac attgacttta tcgtcgatgt 240
gaaggatgag gggatactga aattggcgat tgggtggctta aagaagagtc gatctgatga 300
agtaagtggc atccttaatg cactggagat aatgaggatg aacaagacca gtggaggtat 360

ggatggagac ttcccaattg atctacacat ggaatatgtg gtgagtaagg ggattggaga 420
aatttgccgc ttcccttgctc tgtgggtttca tcttttgtgg gttggt 466

<210> 55481
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-G1

<400> 55481

atcgccacg cgttcgtaga gatgcaagag ccggtttccc tgacctttgc cctaaggtac 60
atgaactcgt tcacgagagg cgtcttcact gtccgagcaa gtcacgatca gcctgtcgtc 120
cgagctacca gtggtgggtcg agtacaagat cgctgagatg gggttacatta gattttacct 180
ggcgccaaag atcgaggacg atgaggagat gaagccatga ttgccatcag tgctcgtgct 240
gccgactttt tctcgtcttc catccatggt ttgcttatta gctattattt gcacgcaaag 300
gaaaaaaaaag atgttatggt ttatatctta ggccagactg ctttagctac ttatttgtga 360
ctgctgtgtg tccatggatt tatagtgaat ctagattagt gggcttgtgc tttgtgcatg 420
ccgctgctgt ctgcccattt tctattcaga catgaaattc tttgt 465

<210> 55482
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H2

<400> 55482

tcgtgagcgg acgccttttt gccattaaca cccccaagtt cgacgtggag caaaagtagg 60
gcttctacac ctgggtggag atctactgcy cccccaagcc tgcgctgctg ctgtccaccg 120
ttagcacgct ctacactcta tggctcgaca tccatcagtg catcttcagc ttcttcaacc 180
acttccgcat gcacacctac tgctcctaga tgcatatgga aatgatcagc gccgactcga 240
taaagcaaga gctgttcaag aacgcttgc atagcggatg ctgctttag aggggcatgt 300
catcatcgca tgggaggaac aataagaaga ggcagcaata aattaatctt aaac 354

<210> 55483
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-A2

<400> 55483

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gacaggcgct tcttctggag atgggtttga tgttatgact ctagccacag atcagcctgc 120
tggaccagtt tcagcaacgc ctaaggtacc taatgccaga gatgatgata agttcaatga 180
tggcatgtac gaagacttgt gtgtagatga tgctgacctt acattcgagg attatgaaga 240
gctatttggg acctctcaca ttcgaacaga ggaactcttt gatgacgctg gaattgactg 300
ttacttcgaa ttgaaagaga caccaccttt tta 333

<210> 55484
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-A9

<400> 55484

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aggtctttgt cggtagagcc aaaggatggt ctctgatgaa cttgaaccaa agctggagga 120
tgcttataac ggggagacgt ctacctgata agtaaaagtt atcagcatct tgatgccaac 180
tgccccctat catgggttttt attggccctt tgcttgattc tcatttcctt ttggagccag 240
tttcttctgt tattgagagg tcacacaagc cttatttgta gta 283

<210> 55485
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-026-Q1-K1-B1

<400> 55485

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gacgtgctga ctgacaactc gtcgatcggg gcgcgcgtctc cctcggggatc gtcgatcggg 120
gagaactcgt cgtcggaggc cggcggggac gacggggagg aggaggtcga gagcaagctc 180
aaggaggggtg atgtgctcgg ctgcttggac gcgctcgagg actccttgcc gatcaagaag 240
ggcctctcga gtttctactc cggcaagtct aagtcgttca ccagcctcgc cgaggccaca 300
gcggcggcgg cggcgggtcaa ggaagtgtg gccaaagccg agaagccctt caacaagcgc 360
cgtcgcaccc tggccaactg gtccaagaga gcctnctgca gtcgctggc cacggccacc 420
t 421

<210> 55486
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-B10

<400> 55486

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acctgtagcc atggacgcca gcggagccgg tagcaagggg aagaaggggtg cggccggggc 120
caaggcaggc ggccccagga agaagtcggg gacgcgggtc gtcaaggccg ggctgcagtt 180
ccccgtcggc cggatcgggc gctacctgaa gaagggccgg tacgcgcagc gcgtgggcac 240
tggcgcccc gtctacctcg ccgccgtcct ggagtacctc gccgccgagg ttctggagtt 300
ggcagggaaac gcggcgaaa acaacaagaa gacgcgcac atcccgcgcc acgtgctcct 360
ggcgatccgc aacgactagg aagctcggga 390

<210> 55487
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-B2

<400> 55487

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cgagcaggct gacaactaag cagatcgggg cgccaactaa aaaggggacc gccgatcggg 120
gagaacacgt cgacggacgc cggcaggcac gacagagagg aggaagacga gagcaagctc 180

aaagaggacg atccgctcgg ctacaaggac ggcgccgagg acaccttgcc gatcaagaac 240
ggactctcga gctactacac ccgcaagtct aaggcgggca ccagcctcaa cgaggccaca 300

<210> 55488
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H11

<400> 55488

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tcaattcaca aacattttcta catgagaaca gttgacattg gacaattccc gggcgatcct 120
gaacacaaat aagctatact cctacaaact aaccaagacc acaaacaaca aaactactct 180
gacatttacc aacac 195

<210> 55489
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-F5

<400> 55489

aaaaaataaa aaaaaaaaaa aaaaaaaagg aaagtgttaa aaaaaaaaaa agggaaagaa 60
aaaaaaaaaa aaacaaaaaa aaatacaaaa taataaaacc taaaaaaaaa aaataaaaaa 120
taaaaaaa 127

<210> 55490
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-F9

<400> 55490

ttcccgaacc agaccacgc ttccgccac acgtcctctg actcttgta aaaattataa 60
acccaaacaa acatataaaa gataaagtaa aaataaaaac agatcacagc aaaactaaat 120
aacacatcaa aaaaaaaacc aataaaacaa aaaaatctat aatataaaat aaaacctata 180

tcaaaaccct cacaaaaaca tcctacaact tactttcaaa aacttttcac taataaacia 240
aatattacct attcccatct tacactatta aa 272

<210> 55491
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G10

<400> 55491

attcccggt cgaccgcact catacgcca ctogtcctcc cactcgctct aatagtattt 60
tgctaaaaaa aaaaaaaaaa gaaaaaagta aaatttaaaa aaaaaagaag gaatataaaa 120
aaacacccac tcttaacttt ctcaacttac atacacatcc attctacatc actaccacat 180
tttatatttt cacctaaatt caataacctg ccctccaaat aacatctatc tatccatgaa 240
aacccatcca caaccaaacc aaatcacctt ccactacatt ccccttcttc caactagctt 300
atcaccttat 310

<210> 55492
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G2

<400> 55492

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ataaaaaact acaatacata aaacagctaa agttaaaatt ataacatcat cacggtactc 120
caaatacaat tatacaataa accctacta cacttggtca attatacctc ttctcatata 180
ccatacactc ttaccctcca ccattttcta ctccacaatc ttaattaaac tgctcaaatc 240
attattacta ttcccaatcg ataccaatc ctaccatta cataaatttc cttttccac 300
attatatttt ttcaaaaatt tctatctctt acattcttct ttcttataaa ttcatctcac 360
ata 363

<210> 55493
<211> 193
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G3

<400> 55493

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aatccttctc agcacaatat ccaaggggtc aggccaaaat tcaaaccgaa gaacgctgta 120

cacatctctc accgacaaca tctttacggt gaccgcacaa gatactatag ccaactccag 180

gaaattcacc aaa 193

<210> 55494

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-025-Q1-K1-G4

<400> 55494

actatcatta ccactttcac aacaccgaat atgccctcta cagctcaaca tcgatcaaga 60

gccnaagaag atattcatat cgggtttggc aaactattat ccatataacc tgccaaagtt 120

tctgtccact aaaaacactc tcacttcact attgctcgaa tccagattct catagcatgc 180

ttctctaacg actaatgcat gcacacttat tcctctataa tctatatgga tatcttcac 240

accaactcac taaatcttta gcttatcaag aacgctttct tagaatgaat ctacttacat 300

agcggcatct catcatgaca tggtaaataa gaaaaagaag catctgtttt catttaacct 360

acagcaactt attgatcatc aacacaagtc tcactt 396

<210> 55495

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G9

<400> 55495

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ataaaaaaaaa aaaaaaaaaa agaataagtt aaatttaaaa aaaaaaaaaat gccataaaaa 120

aaaaaaaaat aacatattct taaaaataat attttccacc ttttattttt taaaattact 180

aattcttctt actttctttt tatttttcaa ctctttctta ccattcttct cctttttaat 240
 tttatttttt atctcattat attccatttt cctttttttt ttcttt 286

<210> 55496
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H10

<400> 55496

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 gccggatcgt gatggagctg tacgccaacg aggtgcccac gaccgcggag aacttccgct 180
 cgctgtgcac gggcgagaag ggcgtgggca agtccgggaa gccgctccac tacaagggt 240
 ccaccttcca ccgcgtcatc cccgagttca tgtgccaggg cggcgacttc acccgcgga 300
 acggcaccgg cggcgagtcc atctacggcg agaagttccc cgacgagaag ttcgtgcgca 360
 agcacaccgt ccccggtgtg ctctccatgg ccaacgcc 398

<210> 55497
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D7

<400> 55497

aaaaaaaaa tttaaaattt aaaaaaata aaaaaaaaaa aaagaaaaag tttaaat 60
 aaaaagataa aagggcatcc attcttataa ttctatactt actaacactt tctttcaatt 120
 tcatatctct tctatattca cacttaaatt caattctctt ttccttattt ttacaacttt 180
 cttaactttt taaaactcct tttcttttac tcaaattt 218

<210> 55498
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-E10

<400> 55498

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taatagaagg aaacggaatg gctgagcgcc tattcctaata ctcggtgcgaa gaacactacg 120
aaacttttttc gccaatatct gagaaagggtg ctagcggtact cactgtcgaa cttctactga 180
accgcatatc catatataaa cttgagttcg agatgcaacc ccttttcatt gaccgagtca 240
aacagacccg ttcgtctcgc ttgttgaatg acactgtgca tggccgggttt gtacatgtac 300
ccaaccgtac atcagcctat tcagttcaag accaatgtat atg 343

<210> 55499

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-F1

<400> 55499

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tatttttttt tttttatttt ttattttttt attttttttt tttttatttt tttttatttt 180
ttttttattt tttttttttt ttttttttat attattttta tttttttttt ttttttttat 240
ttttatattt tttttttatt ttaatttttt ttttttttat ttctttttat tttttatttt 300
attttttttt tttttttttt ttttttttat tttatttttt 340

<210> 55500

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-025-Q1-K1-F11

<400> 55500

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antctccacc ccttctctta gcaatagtag cttctcaacc cggcaaatga tctcactaat 120
tatgattcta ttgctaattc aactttattc tattgctcat ttttaggatg tactctcctg 180

attccctact aatgtttttt ctattttccc taaacatgat ttctcaatca ctatcaatgt 240
gacatgaaac gaagcttcta catctttgat ttccaatata gttaatccta tttttattaa 300
acatccatct ctctcttcat tataaattca ttataagttt tattatcatt ttacattcac 360
ttttatcatt ttacaatttc tt 382

<210> 55501
<211> 334
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-F12
<400> 55501

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gactatcaca aacatgtgag gaatgccgtt gtaaatacgc tgaaggagtt catgatacac 180
tataaagggtt atgttccaat ctaataatac gtacacttgc agaaaactaa aaggcctgag 240
gaaatcggat accatgttac cttacatgca tgttcagaca ggtagctgc taaaatctat 300
ttgttgacta tctttcacat acacatgcct attt 334

<210> 55502
<211> 286
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-C1
<400> 55502

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aattatcaaa tcgagatggc gccatcaaaa ttttcaatac ctttacttct ttctcttcct 120
tttcttttcc acttactacc acttccttca caacaccttc aacatttact actaattcct 180
ctattccaat atcatccttt atctatatac tcatattttc ctcttcttct acttcttcac 240
cttctccact ttatatacta ttccttaact ccattcattt cattaa 286

<210> 55503
<211> 319
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-C11

<400> 55503

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tcatcaatct aaaatataaa aataggaaac ggttccatct taaacaagag atggatacaa 120

atacacactc tacatcatct tctactttg ctttccttca ctaaagttcc atctctcgct 180

tcttccaagc accaccaccc tcttactct ctttcatctc aaccatctct aaactctcca 240

ttacactaca ttctttttta taatcatcac ccatccaaca atatccattc ctatacatat 300

aaatacatta ttattaatt 319

<210> 55504

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-C2

<400> 55504

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ggctcgaaat tgttttccgc gggaaatgtc catatatccc ggagcttggt ttctgccata 120

ctgtcttcaa ttccgcttct tcttaacgg acttcacttg gacacttact acctctggct 180

tcacaacatc ttaattatct acattcatta ctctaattcc aagatcatac ta 232

<210> 55505

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-C4

<400> 55505

cgcaaggatg gtgaatatgt tctgacttac gaggacaagg atggagattg gatgcttggt 60

ggcgatgtac catgggagat gttcgtgac tcttgccgca ggctcaggat catgaaagga 120

tcagatgcaa ttggacttgc tccaagggca gctgataagt ccaagaatcg caactagaat 180

ggttgcttct tacagtccag agcaagaggg agatatccag tgactgtagg gatctttgtg 240

gaagccggaa aacgtctaac agtttcaaga agaattctgc cttatgggtct gtaccacatg 300
 tttttgctgc tacgcaagta aagaactcca cgtctgtcaa tgtagtttt acaacatcgt 360
 ctacggacaa aaaaaaaccc ccccgctatt tgattgggtgc taaacc 406

<210> 55506
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-D11
 <400> 55506

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 cacacaacga tttgggtatgt tacaagatgc gtgacggctc ctatatttca cctgatgaac 120
 aacatcttat taagcacccc actctatctt actatattac aatatgacac cagcatataa 180
 tggaatctgt aatagatcaa accctaactc ctttttctgc tttacagacc aatacacact 240
 atcatcagtg atttcctgca aactctattc atcaaaatat atcttctcta gaa 293

<210> 55507
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-024-Q1-K1-H2
 <400> 55507

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 acacatgcgc agctttgatc ctccatacgc tcataatgat gttaagcctg gtaatgttct 120
 tataacctgg cgtaaaggac aagcacctgt tgcaacttta atggattttg gaagtgaag 180
 gcctgcaaga aaggaaatcc gttctcgttc tgaggcacta cagttgcagg aatgggccgc 240
 tgagcattgc tctgctcctt accgggcccc tgaattatgg gactgccccaa gccatgccga 300
 tattgatgag aggacagaca tctggtctct aggatgcact ctntttgcta tcatgtacaa 360
 tgtttcacca tttgagtatg ctct 384

<210> 55508
 <211> 396

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-024-Q1-K1-H4

 <400> 55508

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 tttcttcaat tcgagaggga agtgaggcat gccctttaat tgnngccggg ccattngnna 120
 tgatcatgan ncatgcatac gagtcctnnt gaatttctga agnntctgat ccgagttgta 180
 gaatgcctcn ntttatgatt tgcaaaagt aagggttgat tgtggccaag gtttttttag 240
 gattcaaggg ctgannaatt gatttcaatg gagttagttc tggtagataa attatttttg 300
 aaaaggaccc tggacgtggg agttggggcc aaaaccaggt tccgggaaag cttgcaatgt 360
 cccaagggat gatacccgga attgctaaag ggtcat 396

<210> 55509
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-B11

 <400> 55509

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 ctgggactcg ccataccccg tgctgctagg cccctccttg gagctgacat tgcggcattc 120
 cggcgcccta gcacctttaa cgcaggaat tcagattcac tagtgaacga gtacaggcac 180
 tcgatggcgc tatcgctgga gaaggacaag tattacacaa cgaggggttc accgttcgat 240
 ggaaacgggt tcgacttttg tagcatagct gacgagaagg gaaccaccgc gttgcctaga 300
 ttcttcgtag cattgtcgaa caaggagaag gaggaggact tcatggcaat gaagggtctg 360
 aagctgccac agaggccaaa gaagcggccc aagctgatgc ataagtgctt gcttatggtg 420
 agcccatgag cttggttatc agatttgcg catgag 456

<210> 55510
 <211> 73
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-H12

<400> 55510

gagaacataa agaacatgat tttggatata cctgtcaaag attgatacat gtttcccatc 60

gaggcaatth cca 73

<210> 55511

<211> 361

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-024-Q1-K1-E2

<400> 55511

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aatttcaaac agctggcact gaattcctgc aagcatgtac aacgcctaca gaaaattgag 180

ctgaacacaa cccacgccta catcggaag aatggcacia tgggtccgtga cccctgtgct 240

tcctagcttt atttatcaag acttcataaa ttcataaata cgcacctcgc tatatatggt 300

tgtgaaacca gcatacacia tcacagatga cacatgcctc tcaagtcac atatttatth 360

g 361

<210> 55512

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-024-Q1-K1-E3

<400> 55512

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gcttgccggg gccaccagca acgagtcggt ggagaatgcc ttcgcctgct acggcgagat 120

cctcgactcc aaggatcat cagaccggga gacggggagg tctcgcggct tcggcttcgt 180

taccttctcc tccgagaact ccagctcga cgctatcgag aacatgaac gcaaggagct 240

cgacggccgt aacatcaccg ttaaccaggc ccagtcctgt ggcggtggcg gtggcgggcg 300

tggctacggc ggcggtcgcg gcggcggcgg ctatggtggc gggcgccgtg acggcggtta 360
 tggcggcngt ggcggctacc gctgtcggcg cgagggttgt ggcggcggct acggaagcgg 420
 t 421

<210> 55513
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-E4

<400> 55513

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 cttacagttc aagagacgat gacttgtgga gcaagaattc acgctttggc tcgaatctac 180
 tctgctggag agccccaaaa cagtccatgt aatggaggaa agaacgagtg aactgggtgg 240
 aacaaatcga ttctgctacg agattttacc aattttgccc gaagctggag acatggacac 300
 cacctacggc tgctgggaca tattttgaag ggaaatctgg gaggggtct 349

<210> 55514
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-E9

<400> 55514

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 gaattcctca ccatctatag caactatcga ccacctatag aacaaatacc acaagaacct 180
 tactttccca aaaatccata aggcaagtac aaagaccagg cggatctaga agtccaaga 240
 ctacaatagc ctgcttgcca tccaatacct tttctatatg agtcaacta 289

<210> 55515
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-024-Q1-K1-F2

<400> 55515

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accgggcctn cgactccatg gagctggacg ggacgacggc agccgtcgag gagttcgagt 180
tcgacaaggg ccgcgtcgtc acgccatggg aaggcgagcg gatccacgag gtggccgccg 240
aggagctcga gctcacgctc ggcgtcngcg ccaagtgaag cgaagctctc aagcaaagct 300
cggatctttg agtcccgtta ctgcaaatgc cgcgattggc agaaaaaaaa atgtgtacgt 360
act 363

<210> 55516
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-F4

<400> 55516

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gatcgccctg gggagccacc agtaggtgta ccaccgggtc gccctcaatg cggcgttcgc 180
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tgagtcttac gctgtccgct cctacccatg tgcattgaac acaggctcga tcggccctcg 300
tcctgccttc aacgagcagc tagctagtta gcctgccctg tacacggcac gccccatcaa 360
cagctttacg actttcttcta agctggtctt taaacatctt gtttaaaaca tgctctagta 420
tctctttgag cttcacttgg tctgtcatgc tctagcacta gcacaagg 468

<210> 55517
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-G4

<400> 55517

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tcgaggacct caagatcgat tccctcgtca tgggtagtcg cggcctcggc ccgatccaga 180
ggattctcct gggaagcgtg acaaactacg tgctgtcaaa cgcacgtgc ccggtgacag 240
tcgtcaaggg gaagtagcgg cctggacagc gtgccagtga tatgaatgaa gatgctagcg 300
tgcagtttgt gtgggttata gctaaacact atgttccgtc ttgttgctgc atttcaataa 360
agcatgtgtc t 371

<210> 55518
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-024-Q1-K1-H1
<400> 55518

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cgcgcacggc ggtgtcctcc gcaacatcga cccgtttctc ctgccaaga aggttgcgga 120
gaatgcgtcc agcggcagca gctacgagag caagtcccct aagaaggccg tcaagtcccc 180
aaagaaggca gccatgtccc cgaagaaggc ttagaaatca ctacttcac tagcgtctg 240
ctgtagcatg ttctgtgtcta gatctgtgga acttatgtgt gccagcctaa ttacctatct 300
gccttgtagc tctgatatg ttcactggca tgttagccga gttgtgatcc gtggactgat 360
tttgcaaata atcata 376

<210> 55519
<211> 294
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-024-Q1-K1-E11
<400> 55519

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cctcagattg gcatttctgg ccactctatc ggcgaccaga gctcccagtt caatgaagca 120
ttcatcctct tcgacaagga ctgctactgc ttcataacca ccaatgaact tttaactgtg 180

attctctcgt ttgggcataa ccctactgat gcttatcttc atgacatgat caacgaggtt 240
gatgcttatt gcaattgaac catctacttc cctgagtttc ttaaccttat tgca 294

<210> 55520
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-H10

<400> 55520

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at 62

<210> 55521
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-C1

<400> 55521

cgacgcgtc cgagcatttg cacgcttgat catagaaaat cttacactgt ttcctccaat 60
ccacgctgta tgagacctaa aaatgcttaa cgacccttca agtttgcttt tcaaggaaat 120
tttaacagat attgcccgtg ctgattactt tgagcctatt aggaccttcg atgagtcctg 180
catggctgac tttttcaaaa aaacgacctc tttatctcag cacctggtat acaatcctaa 240
agaggatga cggcagagag ggatcatcat gctttgatct ttaagaattc ttttgttagc 300
tcaaagacta caaaggacct ttctctatga tgtatattgt atgctctctg aaatttgaag 360
aattctgtat gaaactttgg ttgccttgag cattattgta tagcgccga tagggcgcta 420
ctgtttctag gttaaatt 438

<210> 55522
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-024-Q1-K1-C3

<400> 55522

acgcgtccgc tgcaactggg cgcaacagcc gatacactag ctgaccgacc tgctcggaca 60

cgcacacgac gcatcaccac cgaggatggc agcttcataa tcatgacgag caccacacta 120

ccctgtaact acgactcaag gccagcatg ctgcctcaa aacaatgggt cccactcgct 180

aaccaggcca acctactatg ccaagaacca cgactgtccc tagcggagaa tctnagtaga 240

ccgtagacgc actactaatg acaacaacta ctaccactgc acaaccacat cactatgtac 300

tcgatgccat gcgctctcta cttttccacg cta 333

<210> 55523

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-024-Q1-K1-C4

<400> 55523

ccacgcgttc gccgtcgccg aggccttctt cccctcgctc cccagctcca gcaggcagat 60

cagatccatc gaaccacgaa caggaaggaa ggtangaagc ctgaggggct gggctgaagt 120

tgaaccatga gtgccgtcgc ggtttcgctg tcgctgaacc cgaacgcgcc gctcttcate 180

ccggcgggcg tgctgcaggt ggaggacttc tcgccgcagt ggtgggacct catcaccacc 240

accgntcggg tccgcgacca ctgggtccgc gagcacgcc acctggatga gatagccgag 300

cagctcgagt tggtcgccct tcttgcttac gatgaggatg aggacctctt ctacggcgag 360

caggccctc ggcggcggcg gcggcctta 389

<210> 55524

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-C5

<400> 55524

gtcaatttga cccagttaat ggaggagaaa tgctgcagct ggagtgtac agttttgtga 60

aaccgtcaga tcaaccgtag caacacacaa ttatcatcta tcaattgatg cctcctccc 120

cgtaccaaga actgtacagt atctttgtgc gccctcgttg gccggaggtc taagctaaat 180

atgataatat tttctttgtg tatatatata tttcttggtg gctctgggtg atgtgtgttc 240
 tgtctgtgga agggctaata caccatctg cagatggacg taatataacg tgctgttatt 300
 attctatgga tggattgaat aaaatagcct aacaatgctt ctcc 344

<210> 55525
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-024-Q1-K1-D1
 <400> 55525

gcgtccggtt acgaacatga gaattaatgc cgctaaactc ctgcaatcac tcgtaccaat 60
 cctttgtcaa tctgtagtgg agaagagagt gaaacatgc gtagttgagc tcagtgagga 120
 cccagatgta gatgcaagat actaccaca ccaagcccta catgcatgtg accaaatcga 180
 gatatctagt cgactagcct gtccaggaat taacaaatga gatacatatt ggtctattct 240
 atttgaacat tttaaagagt catgtagtct taaaaatatt gaaccaccaa aggacgtaat 300
 gcatc 305

<210> 55526
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-024-Q1-K1-D2
 <400> 55526

gcgtccgcgg acgcgtgggc cttagacagg gggcatattg accccatttg taagagtttg 60
 catcggagca gccacaggta tcacaggcga caatactgtc taacgtgcgc gacaagtcaa 120
 agctggatct ctctggtcta tggcactttc atgctataca tacgcgtct atctctgcat 180
 taccattgca aatctacgt taatcaaagc tctggtggtt atagagcacc tcaacaagct 240
 gcaagtgtc tagtagtccc acccaccact gtccatccac agccacacca ctctgtgcgc 300
 gggggcgtgc gttttcgact tttccagcc acggtgtatg cgtacaaatg cgagtagtgt 360
 agcatcatca tcatcttgtc tcgagtgtga tttctgtggg gtt 403

<210> 55527
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-D3

 <400> 55527

 ggaagcatgt agtgattttg aaactactgt tcttgctcaa aaaaaaaaaa tattcatcag 60
 aaaaacttca aaaatcggaa gcgacaatac aaactaaacg actcaacaag aaaaaacaaa 120
 aatcacttac aaaaatgaca ctt 143

<210> 55528
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-D6

 <400> 55528

 tgttggccgg gtcgggggttc atcctgtcac aaggtagaga aaatgctaaa agagagtggg 60
 gtggccttgta agataaactg aacaagaaaa tttaaaagta atgtgccgta tgaatcgctg 120
 cttgatgcta gatccaactg ttcaaggata tatatagtga tggttctctg tggattactt 180
 tccccttgta aatatcttga gctattgaaa gggtattagg ttacagggct ggtgtgttca 240
 tgttaagttt catgattatg atgtccttga tgtgtgttaa tgtccattta agtgtctgga 300
 aatagtttat aaaacgtgat tggaaatata acacataaag aaaacattgg tatgaccttc 360
 t 361

<210> 55529
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-E1

 <400> 55529

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 tgcgcgagcc acgctcacat cgtccgcgtg cgatcccgty agaagcgcag ggaccgcaag 120
 ccgccggagc gcttcaggcg cagggaggat aggctgctg gtggacaagg aggccccgc 180

cctgggtcctg gtgctgctgc tacagctcca tctccagcac cggttgctgc tcgcccatag 240
gcttttagctt ttcgaccgtg ttaagtcttc tgcccactca gtttcggagt tgtcccctgt 300
gcggtgtgtga agctgctata ttagagttac tttttgtcta aagtctgaac attttcgaag 360
aatttgaata tctgaacatt tgaatgtttg tgctgagttt ttcaaagaat ttgaatatct 420
gaacaattga atatctcact tgaacgtt 448

<210> 55530
<211> 183
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-G5

<400> 55530
tttttcaata actacatccc ccacatgctc ggtttaaaaa agaagagggg ccccccaac 60
aacccaanc ccaacatcac tttctccag acccatacct tctaacaact atatctcccc 120
ggagtgtttt acatttatct tttcttcaat gccaccaaca cccataccaa tttttccacc 180
aac 183

<210> 55531
<211> 310
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-023-Q1-K1-G7

<400> 55531
atccaaagcc aacattggtg gattgatgag ctttagtgga gcgccagcct gcggcttcca 60
caacgatgtc aacccgatg acagcttcat gagcctgatg ctgaaggccc agagaccggg 120
cgaaaccgat ggcagcggtc tctccatga tgccgtcgct catcactccg atgagagcgc 180
gcggttcatg gcgtaccacc tgacagagtt tgggaggtat gggaacaacg tctcactgac 240
tctgggggtt cagcacgccg agaacaccca gccaggcttc ccctgcgtca gagaccaaga 300
catctacaac 310

<210> 55532

<211> 136
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-023-Q1-K1-H4

 <400> 55532

 ctgctcgcgc ggcgcttggc ggcggggcgcg gcccgctgct gggcggggtgg aaccgatcc 60
 ctgacgtgag cgactcgac attcaagagc taggcgggtg ggcgcttggg caggcgaagc 120
 accaaaagct ggccgc 136

<210> 55533
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-H6

 <400> 55533

 ttcgacgcga cgcgcgacgc gaccggtccg ggaagtgcaa gctaagttcg aatgctccag 60
 actttgtacc tgtctcacag cgtacagaan atnagtctgg cgctgagcag agagaatcca 120
 gcagcgtact tgtagacagg acatctggga taaaaaatgc ggctgagaag cccacgata 180
 ccaaggtgat caagcctcag gatccgtgcg tctccgaaga gcangctagc gaggccgaga 240
 aagagaatgg acctcagga tgctcttgca gcggcaatca gggccaagag gaggcagcga 300
 aaactgcaac taaccacccg ccagct 326

<210> 55534
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-A2

 <400> 55534

 gaaggccaaa gctgatgttc gggagggaga tgaagcagaa ggttctaaca agtcaaagtg 60
 tgaggttgag gatgatgagg aggatggtaa tgaggacgag gatgagtaaa tagtacgatg 120
 gggaacagca gctttgcaat tgagtgtttg ctgctttact ttttttcta tatgctgttc 180
 cttttgatgt tatatgctgt aaggaaaatc tgtacatgat ggtaccttag ggtatggcat 240

gctggagttc ccctttaacc cgaagagccg gatacttttg ccagcctcgt cagcatgtgt 300
aaacagttgg tttcttgttt tatcgactaa ttgggtgact acccaagagt tggtttgtaa 360
tcaatgaggt atgc 374

<210> 55535
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-024-Q1-K1-A4
<400> 55535

gaccaccaag tactactgca cggtcattga tgcccctgga caccgtgact tcatcaagag 60
catgatcact ggtacctccg aggctgactg tgctgtcctt atcattgact ccaccactgg 120
tggttttgag gctggatatct ccaaggatgg ccagaccctg gaacatgctc tccttgcggt 180
cacccttgga gtgaagcaga tgatttgctg ctgcaacaag atggatgcaa cactcccaa 240
atactccaag gcacgttatg aagagattgt gaaggaagtc tcctcctacc tcaagaaagt 300
tgggtacaac cctgataaga ttgcctttgt tcccatttct ggttttgagg gcgacaacat 360
gattgagagg tccaccaacc ttgactggta caaaggccca accctgcttg aggctcttga 420
ccagatcact g 431

<210> 55536
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-024-Q1-K1-A5
<400> 55536

ggtgaggatg acgatgatga agacaatgat gatgaagacg aagatgacga ggatgatggg 60
gatgatgatg attacgattc aaagaagacc aagggaactg ctggagggga agggcagcag 120
ggcgaacgac ctgcagagtg caagcagcag tgagggtgctg cacaatgaat gttggcgggc 180
attggttggtg gagcaattag ttaggttctg cttgatgcgc aaggtcattg agttggtttg 240
tggaacctta tagggggcgc ttgatggttt tatggaattg gttggagaat ttttctggga 300
catggcgta tatcattata tgtgggtaga ttcttcactt actgaattgc gtttcagata 360

ttatatatgt ggtcttatgc tt

382

<210> 55537

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-A9

<400> 55537

atattatata gcatatttgt gtatttatta tagacagtta ctattttaca acttggttaga 60
caatttttta gtataaagat tcttctttca cataatcatt tataattttt ttcttaattt 120
aattttatatt cctccttttc tttatttttt tattccttta attattattt tattttactc 180
atttatttta taaatctttt atatttaatt ttttatttta t 221

<210> 55538

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B10

<400> 55538

cggacgcgtg ggcggacgcg tgggcggacg cgtgggtggc ggccgacgag gtggaaaggg 60
gcgtggagga ggctctgctg cacgaagtgg agaggaagca gcagcagcag cttggagctg 120
ggagcgccgc ccctggtttt ccaggcccgt catcgcacgt gcaaaacgtg ttttgacacg 180
cgaagaaaca tgaaccccgga gcctcatttc ttgattcttt ttttttaaga accggatgcg 240
caaaacgagc atccgcgtct ctggctctat tgatttggtt ttaatagaaa tcggtcttgt 300
ttgtgtaaaa aaaaaattta atatttatta at 332

<210> 55539

<211> 319

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-023-Q1-K1-D3

<400> 55539

caaccggtgg cgtgaagaag cctcacgct tccggcccgg caccgtcncg ctccgggaga 60
 ttcgcaagta ccagaagagc acggagctgc tcatccgcaa gctgcccttc cagcgccctcg 120
 tccgtgagat cgcgcaggat ttcaagaccg acctccgctt ccagtcctcc gctgtcgccg 180
 cgctgcagga ggccgcccag gcctacctcg tggggctctt cgaggacacc aacctctgcg 240
 ccatccacgc caagcgcgtc accatcatgc ccaaggacat ccagctcgcg cgccgcatca 300
 ggggcgagag ggcttgatc 319

<210> 55540
 <211> 267
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-D5

<400> 55540
 atacaactca aattcnacaa aaattttttt tttttaaaaa aaacaaaaaa aaaacaccgc 60
 cccgttttta tttaaaaagt tggccaaccc caaaaaaaan ccnnncntt ttatantatc 120
 caatcttact tactctttca tccaacttca tacctttttt attntatcac tttttttttt 180
 ttcatttccc ttcattttac aactttttta cttttaaaac cctcccttta cccaatttaa 240
 tcccttntca acacatcccc ttttctc 267

<210> 55541
 <211> 327
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-E1

<400> 55541
 accacgcgtt cgagcatatg agatcatgca gtcacttgat gtgaactatg tgcttggtgt 60
 ggttgagggt gttactggat attcttcaaa tgatatcaac aagttcttat ggatggtacg 120
 tattggtgga ggagtttttt ctgtaatcaa agagccagat taccttggtta atggggagta 180
 tcgtattgac aaggtggcag caccctaaat gctgaactgc ctaatgtaca agctttgtta 240
 ctaccgattt ggagaactta ccacagaata tggaaaacct ncatgggtatg atcgtgtacg 300

aggagtggag attggcaaca aagacat

327

<210> 55542

<211> 296

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-023-Q1-K1-E11

<400> 55542

agcagaatcc taaaacccgc ccccgcccc aaccggttaa aggcccaaaa ggtcaccgtt 60

cgttgaaccg gctacggaag ggatcgtgat ctgtccaaaa aattttggag caccaaggcc 120

cctgggcagc agccatttca tttcagcatt ggtcaggggc agtgatcaaa agatgngacg 180

agggagttat gaccatgcaa gtgggtgaag ttgctcgtat ccagtgcacg cctgattatg 240

cttatggagc cggcgggttc ccaacctggg gaattcaacc aaactcagtg cttgtg 296

<210> 55543

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-E12

<400> 55543

gcggaactgcc tctatatgga ctagcacact ccagagaaca atattaacag cacatccgat 60

cattggtttt ccaaagatac aatggcgtgc tcttgatgag atcaatgctg gggctctgtga 120

tgggatgaca tacgatgaaa taaagaaaag tcaacctgaa gaatatgaac cacagc 176

<210> 55544

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-023-Q1-K1-D2

<400> 55544

acgcttccgt tccccttttg gcttttcaag atattggggg aaggatattt gtcttgctga 60

gacgtgtccg tattgaatct aaggggcggc aaaagaagct ntatgaggtt gggactgtga 120

cagcaatttg tggtacctgc ttctgataa gatgtgttgt gggtgcatta tctgcgtttg 180
atgccgatgt atctctcgag gttttggacc atccagtcct agattttcttc tattatatgc 240
ttgcggagat actgccttct gcgctagatc tcttcgtact tcggaagctt cctccaagcg 300
ggttttcgca caataccacc cctanaacta gagagttttt ttaatgatgt acatgct 357

<210> 55545

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-023-Q1-K1-F9

<400> 55545

ctgacaatgt gcagcggaac aaggacaagc cgtcattcttc cgaagaaaag gaggaccata 60
agacctcaac gagccaagtt tgccaaacca ggcaacttgg cnaatccaaa gccaacattg 120
gtggattgat gagcttttagt ggagcgccag cctgcggctt ccacaacgat gtcaaccccg 180
atgacagctt catgagcctg atgctgaagg cccagagacc gggcgaaacc gatggcagcg 240
gtctctcca tgatgccgtc gctcatcact ccgatgagag cgcgcgggttc atggcgtacc 300
acctgacaga gtttgggagg tatgggaaca acgtctcact gactcttgg 349

<210> 55546

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-B1

<400> 55546

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gagaacttcg actgcggggcg cgggattatc agcatgaacc tggacctgaa aaagggcggc 120
aacaggttca tcaagaccgc cgcctacggc cacttcggcc gtgacgacgc cgacttcacc 180
tgaggaggttg tgaagcccct caagtctgac aaggcatcgg cttaagggttg ggagtgttca 240
ctgtggacat gaggactacc ttctcttggc tctgctgtta cctgcaagca ttgctgctgc 300
tggatgtgtg tgtttgatca gtgactggct gctgctccat aaaagatgaa cggagagaag 360
gatgattaag aagggctttg gcaatcgccg ctgcaactgc aacccatgcc atgccggctt 420

agtgattggg tataattttg ctttgcaagc accagcatta ttatgtgctg atcttttatc 480
 tttactagtt 490

<210> 55547
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-B9

<400> 55547

aaacctgtga atatgtttcc aaatcggttct gtttaatctg cctgtcaagt gctantagtg 60
 tgcgtgttat taccagtgcg gagggcggcg ttaaatttgc gttttgctac ctcttctcga 120
 gaataaacat agttgacatt actcggctca aaaagttcag atcgactcaa ttgttggtgc 180
 tttttttttt ttgccttgat ttttcatctc gctcagctcg agtgagcacg ttctattgtt 240
 aggttgccctc atcttggtta tcaccggac 269

<210> 55548
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-C3

<400> 55548

catatanntt taacnntttg acnnaaggat gtnntatgag cntnntggat gnnnaaatga 60
 aagggannta atttcttaga gngnntccac ccanacaaat tcttcacttt gtgatgaaca 120
 cannagcatg gtcatttatc tttcacnaag aagggcnnct ttatTTTTTca ttatttanna 180
 tttcaatcct caagtcttcc cattccgtcg tatttccgtg tggtgtggat gaaagctggg 240
 gaataaccaa ctcatcttca acacagatga aactaaatat ggtggatgtg aaacctcaa 300
 gagtagtcag tatatg 316

<210> 55549
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-C4

<400> 55549

cccacgcgtc cgcacgtga aatagctaag aaaccaaagg tccagtcacc ancagaggaa 60
atgtttctgca gcgagaacaa gtctccagca aagcaagtgt ttggggatca gaacaaatcg 120
tcatcaaacc aaatttttgg agatgaaaac aaggagccgt cggcatgggg tgctatagag 180
actcccatgt gcgatgttag agtgactgac agcccactgt cttctcagct ttctccaatc 240
gtatgccaaag ttgtggctgc accattatca gaggaactga atacatgcag tgcagtggaa 300
ggaagtgatc ctagcaagga gaagaacagt cttgctggac agaaagatgg cggccgcctc 360
ttggagttaa cataaaatgg gagtctgc 388

<210> 55550
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-C5

<400> 55550

aaaaaaaaata caaataataa aattatttaa aaaaaaaaaat aaaaaataaa aaaaaaggga 60
gagggtatattt aaaaagagcg ggtatgcaaa aaaaaaatat atttaaaaaat aataaaaaaa 120
aaaaaggggc gcccgtttta tagatttcaa gtttacgaac ccgtccattc aatttaatat 180
cttttttttg atgtcccata atttaatttc tgtgccccta ttttaaaaac atcttaattg 240
aaaaaacttt gaagttacca atttaatttt cttagaagaa cttcctttt 289

<210> 55551
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-C7

<400> 55551

attcactgtg agactgatga gacattaaac tgctgtttcc tcaactctac atttctgaag 60
agaactatcg ggtgcacgc cttcgatgc taccattgtg ttttatgggt caacaagatg 120

tgatgcccac aagcttttcc ttggacaatg ctgcagcctg cagcttctaa cctgtagaac 180
 caacatagtc aggttttcacc gaacctactc actcttggtt ccaccaggcc aactcaactc 240
 tgaatgaccg cttgaagagt ccaagtotta cttcagctta agaatctaaa actcgtttag 300
 tctctcggcc tttttcgtat tat 323

<210> 55552
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-D1

 <400> 55552

aaaacttcaa tttcctatth caagttatga ctattccttc caattanctg atcggtttha 60
 aatactgttg ggcaaagttt ttcataaaca tatatttaac ttnacaagg atgttatgag 120
 cttggatgaa aatgaaagga taattttctag aggtccaccc aacattcttc actgtgatga 180
 cacaagcatg gtcatatctt tcacaagagg gcctttatth ttcataattha atttcaatcc 240
 tcaaactctcc catccgtcgt atcgtgttg gtttgatgaa gctggggaat accaactcat 300
 cttcaacaca gattaaacta aatatggttg atgtgaaacc cttaaaaata atcaata 357

<210> 55553
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-022-Q1-K1-G2

 <400> 55553

cggttcgaat tcgaggcagc ggccgctgag ctacaatatt tgtactacca tgctgtagct 60
 gttgcaagcg tcgacctaaa tgcgcaccgt ggtcttaacc ttgctggtca atgccgaact 120
 caagctctag ctgatggcgc tgatcctcaa catgcatact atactgaaga cttaaccaca 180
 tacactgcta gaatgagcta cagcagccc aactctggtg ttatatacac tgtgaccaac 240
 agagtactca acatcttctt ctacatacta caacctcgac gagtgaacc tacacncgtc 300
 acacgagaac tgagacacag attgtcatcc aactggaaca ccatctcatt cgcgacgcac 360

catgccttta acgctttgac cactatgaag gctcgcttta tcgaccactg attggacagt 420
gcactgatcc aacacgagta gat 443

<210> 55554
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-022-Q1-K1-H10

<400> 55554

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tcttgccagc agatgatgat gacgtcaagg aagtgagcta tgagactgag tgccagaacc 120
cacggatgct ggacctgttc ggggtacaact gctcaacacc gagtgccgct cttccagctc 180
tgtgtgctgc cgcccccttt ggaatgtgat gctgcttcga atctttcgat aactttgctc 240
catgtactct tagaagtttt actttcccag taccocagtg tagtcataag ctgcttttga 300
catcattccc tttggctctgc ctcaagttaa gcaggcattt gcacaagtaa acgaaggttc 360
gttgggtgaac cactcctcga catgcc 386

<210> 55555
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-H6

<400> 55555

cccacgcgtc cgcccacgag tectcccact cgtccgcca cgcgtccgct taggcttagg 60
attatgcgaa ttcaggatcg gacagattag taatcattca gccaaactta tcactttaac 120
aataaacttg aattcatcaa acaactcaat gaaaagctcc tactcaaacg atcatgtgat 180
aatctcctaa tacttgaagt atgtaactta cacttgacag aaatgtgatc atctga 236

<210> 55556
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-022-Q1-K1-D7

<400> 55556

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tcaacgtgct ggaagcgcga gaagactcat taaagccgct ctacaagaag cagcgcggaa 120
gcgtgagatg cgttactcgg atcttacaaa gatcgataag aaagttcgca ggcatttcca 180
tgatgacatt actgtcatcg tcttatttat aaactatgac ctattattga aaggtgctcc 240
gcaggggacaa cccctctcca tcagatgtgc cctagattat tgacagttag ctagttcacc 300
cactggtatt caagctcctg cgggcagcca tatccagagt cagctgacat ggtcaaccgg 360
ttgtgaaaag cgcacaacct ncggcaccag tttccttttc gtttccccct ttttgacat 420
aaaattgaca agtcgc 436

<210> 55557

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-D8

<400> 55557

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ggcaacttat tatgcgacgc cgaatactca gtaactctcg tctccatgac taccttctag 120
gccataataa tcattagttg gatctgactc aaatcctgct gaaagttcat ctgcatagtc 180
aatatcacat taatgcctta aacttataaa taaactatga cctattattg aaaggtgcta 240
cacatttaca acaccctctg catcacattt tacataaacc attgtcagtt acccatactc 300
tcccactgat attcaatgct atagcgtgac ctcatttcca tagacagatc acatgtttac 360
aacgttgtg 369

<210> 55558

<211> 304

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-022-Q1-K1-E10

<400> 55558

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ctgaagagag ttgcggcttc agtgctaagc gagatgggtt tgaacggagc atccttatcc 120
caagacctgg taaccgagat gtgccggttc gggggtgcgg agattcatcc agtggctgct 180
ttcatcggtg gagtcgcttc acaagaagtg attaagctgg tcaccaagca gtttgggcct 240
ttggggggaa cattcatttt taatggaatc gatctcaaat ctcaagtttt ggtgctataa 300
catg 304

<210> 55559
<211> 68
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-022-Q1-K1-E2
<400> 55559

aaattgtcac aagctgactt catggcggtta aaattaatca cagaaacagg ataatcaaga 60
actagatc 68

<210> 55560
<211> 344
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-022-Q1-K1-F2
<400> 55560

ctcgtccgga accaataggg acgcttggtg aaaacatttg attagaaata agatcaaggg 60
gtgacaggga tagttacaac gaacaggggc ttcaagcaga agagaaggat gttgtgtcat 120
ctgtggccac agtgttatct gatctctgtg gccttgagga atggatgccc atggcaaaac 180
tccacaacga gcttcttgag cagttctgca acatgtggca ccccgagcatt gtcggaagt 240
acctgacaca tgacgactgg tcttcgacgg agactaatgg caggccttgt ttcggccttc 300
tggcgcttct caggaagtac cctgagcact ttgtcatcaa cact 344

<210> 55561
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-F3

<400> 55561

agaatacctt gcgagtacca gaacaggaac ctgtctgtac gcatcgacga ggaagggagc 60
cggcacccgg cgcacctggc catcaccttc ctgtaccagg gcgggcagac ggacatcgcg 120
gccgtcgagc tctcgcacgc gcacgcgcag ccgccgtcgt ggcgggccat ggcgcccgtg 180
cgcaggcgcg gcatcgtagc gtggcgcacc tcaagcgcgc cggcgggggc gctgcagctc 240
cgctctgctg tcacggccgg cgtcggcggc aagtggctgc gggccggcg ggacgtgctg 300
ccggcggact ggcggcctgg gcaggtgcac gacacggggc tccgggttcg cgacgtcgcc 360
ctgagctcct gacccgctc ctgccgcggc gccgctacag ccggcgccag cgaggagctc 420
aggtagagta gattagatgt 440

<210> 55562

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-F5

<400> 55562

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gttttcacaa tggacatgct tgcaaatgat ggtgtccatt ctttcgcaat agggtttctg 120
taccattgct gatacatttt tcttacacga tttcttcttt tgcacccctt agcgttttaa 180
ctaacaaagc agttcaatat aatcaatcgc agccactgca tctaataccag aaacatctta 240
atcgccctac tgctgccgct acagattctc cttttcgtaa tctcctaata ctgacactca 300
ttataatgca cccctactac actctttcaa ttgcacaact acccaactat aataa 355

<210> 55563

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-B3

<400> 55563

gagaaagaat ataaagtgc actaaatctg gggaactgtt gcctgtaatt ttatgtacat 60

cagcggatat acttgtcgat attatgtacg aagtatgctg caaattgcaa ccggtggcta 120
 ttgggacttt gagaagaaag ctattacaaa ctacatgagg gcggtttgcg aatacaaaat 180
 tccaacaatt ttcctagctt aagagtcagt ttggatacca agggctaatac agtttcgtgc 240
 ttcataatth ttgtagaaac acgactcaag tttcgtcaca taccctgtaa agctagtggc 300
 gtcctgctt ctttacacag accaatcatt cctctgattc ttcccaacta gaagtctgga 360
 tgtgcaacgc tgtgcaagtt tacaatgca gtgtcaaata gcgcgcattg gaactgaatac 420
 tgcagcgaat gtgcaagaaa t 441

<210> 55564
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-C2

<400> 55564

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 gctccccctc ctgggaagct gtctgatgat atagatgcct actccatccc tgatgcatat 180
 aagaagggat tggattctga gatggacatg ttggggagag gaaattcgga aaagaaggat 240
 ggtgaaagga ctctgggagg gctggatatt gatttggagg accagaaggt gcaaagaatt 300
 ccagccgatg agtccacgcc caagaagctc aactgcagt tggatttgga gaagcccagt 360
 cttggtgatg aaaaatcacc atcacagcga ctgcagccgc atcaacatcc acaacaattg 420
 catcagctga agccctcaaa ag 442

<210> 55565
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-C4

<400> 55565

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 acgttctgtt acaaccggaa acggagctca cacaaaaaca ataaaaatct atcttatacc 120

aaatcacata aaaaaaagca ccctccccct acatacccca atttttattcc ccctaccttt 180
ctactcttac tccttttttaa tacacaacca aatttcattt cattgccacc ctttttaaaaa 240
cccctaacct ctaaaacccc tgactttccc caacttattc cccttcaata acacccccct 300
ttctccctct acctaaacac caaaaacgcc cactctattc gcctttccca caatttcc 358

<210> 55566
<211> 193
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-022-Q1-K1-C8
<400> 55566

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atatattaca acgtgggtag gccatatcaa cattcataac tattgtgcat tttagtactc 120
tatatgtgta tcctttatat gaatagatac actgtactta taatagctca tgtaactcat 180
ccctttgctc ctt 193

<210> 55567
<211> 366
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-021-Q1-K1-H3
<400> 55567

aatttccggc tcgacgcacg catgcatcca cacgtttctca gcacctctca ttgcttcaact 60
gtttcccca ctgcaattaa ctagagtgtg gtgtctacac aatcatggcg ctggctattc 120
atccaatcat taatgctcaa gctccacttc ttcgtgagca tgtcacctt tatcgacctc 180
ttatccttgc cctattattc tatgcttatt tatatatacc gatattctgct ttattattac 240
ccaatacttt ttatacaata ttttacttta atgtactaaa ttattttgat ttcgtttcta 300
ttaacaatth ttacaagtht attactctat atcaatcttg atgcttatca tttactatat 360
taatat 366

<210> 55568
<211> 281

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-A4

<400> 55568

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 gtgtatgctg atcacaacct cttatagaag ggtgaggaac ttgcagggcg gatggatgat 120
 aaccgtttca tgttttgtgc cccaactctg gatgcactat gtaagctata ctttgaggct 180
 ttatagggtg ataaagctgt attcctaatt cacaatctat ctatacataa ccacattaag 240
 cctatatata acacatacat tactctgctt gacatcttct t 281

<210> 55569
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-B1

<400> 55569

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 aattttatat acagtcacgc tttatattta acagtagtta ttgcccaaat atacttataa 120
 atttcaaccc ttatctatct taacttttat aaaaaaacta ttactaacta cattaatcca 180
 tttttctaata acaaaattcc aacaatttct ctaacttaat aattaatttc tattccaaaa 240
 ttctaatacat tttcttactt tataaatttt ttaaaaacac cacttaaatt tctttacaat 300
 acccttt 307

<210> 55570
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E9

<400> 55570

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 cgtttgata taaccctttt gggggacatg ctgtctagat cagatctaaa gatggagttc 120
 ttccatttaa tcagcttctt tttgagtcac tgcacgaaca aatggagagt gccaaacgat 180

caggttggtt tgctgcttct agagtctctg ctacttcttg gctacttttc tttgttccat 240
gctgggaacc aagctgttct tcggtgggga aagagtccca ctatacttca caaggtgtgc 300
gacctgccat ttgttttctt cagcgacccc gagttgatgc ccatcttggc tgctagtttg 360
atcgctgttt gctacgggtg ctatcataac cctttgcgtg tacagtaaga aataagcacg 420
gatat 425

<210> 55571
<211> 183
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-021-Q1-K1-F12

<400> 55571
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ggcgacgcga aagagggcgc aggaanaagg ggggagggcn gaggaggagg actggcggga 120
gcgcaaggca caagncaaa gccggggagc aagaggaggg gaccagaagc gangaggaag 180
aca 183

<210> 55572
<211> 150
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-021-Q1-K1-F2
<400> 55572

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ttttatttat ctataatata aatgggatat agtattatgg actaggggtt aacttaaaaa 120
tattcattac ataatccaat ataattaact 150

<210> 55573
<211> 438
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-021-Q1-K1-C7

<400> 55573

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ggggtatgcc aagcctcccc tttcagaaac ctgcaagggt gcggaattca aagtttctca 120
gcttcaccaa tgtacagata atccaacaaa cactgtatca tacgatgctt tgagctcttt 180
tatttgatct gctcgtaaaa gaagtgcatt tagagttaca gtgggcagca tagatgatgt 240
tgcaggaccg aacatcttgg acactttctc aaagccgaga agagatccat cgatgtaggg 300
tcattcagtt ctacaatcca cttcgctgct gggaggatga gaaaaatggg aagngagttt 360
gtagtgctga aatttgcatg tgcttagtgc actactttgc tctgctatgt tttccttagc 420
agcttactac tgcaggct 438

<210> 55574

<211> 151

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-021-Q1-K1-C9

<400> 55574

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gagaagggga gccagcgccg cgccccgaga ggcccacgga agccagcaga agcgcgcaca 120
aaaccgaccg aaggcaagac cgccggggcca g 151

<210> 55575

<211> 190

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-021-Q1-K1-D9

<400> 55575

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cggcaacaag ctnggcacag ggctgaaagg ggggagcgna aggcgagaaa gaagagcgac 120
tggacagggg gagcatnaac ggancgacta aactttctga agagtatata aacattatac 180
tcacctgtac 190

<210> 55576
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B8

<400> 55576

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cagccgcate catggcgccc aaggcagcga agacgcccgc tgcgaaacag ccagcgacgy 120
atgcaccage tgccgtgaat gcccgaaagg cgaacaagcc catggccate aagcgcttac 180
caacggccaa gtcgatcagc caataatgcy gctacatgaa gggtaacagg attgcygaaga 240
agtcggtgga gacctacaag atctacatct tcaatgcgct aacgcatgta catcccgaca 300
tgatcgtctc tttcaaggcc atgtacatca tgaac 335

<210> 55577
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B6

<400> 55577

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gtgccaaggc aactgggta tgtcgcgtga ctcgatgcac aagcgccgag ccaccggtgg 120
aaagcagaag gctgaagga agaagctaaa gtatgagctt ggctgccaga cagccaacac 180
caagttgaca agcaataaga cagttatgag ggtccgtggt cgtagaggta atgcygaaatg 240
gatggctatt ggctcgaca ctggtaacta ctcattgtga actgaagctg ctaccctcat 300
gacccttatc ctcgacgcyg tctacaatgc atcagacaat gagcttgcyg tgacacagac 360
cgttggttaag agtgccattg ctcacgttga tgctga 396

<210> 55578
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B7

<400> 55578

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ggagaagaag caaaagggtga agaagaccga gggcgagctt tttgagacag aaaaggaggc 120
atacaagtca ctgtctgact tcaagaagga tgaccagaaa gctgtggatt ctgctctgat 180
caaggctatc gaggctgacc cggagctgaa aacctatctt ggcgcactga tctctctcag 240
ggatggtgac aagcccatg agatcggctt ctaagctctt acttctggag ctcgaggaa 300
gctgttttgt ctgtgatct 319

<210> 55579

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G11

<400> 55579

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gaggttgaca atctgagaca cattgttatg gtaaaaaatg cacgaattga ggaagattat 120
ggcaccata tcgctgatct tgacataaat gagttacaag accggcccag gcgaaggatt 180
gaagaactcc aagtatttga agggacacac catgattttt tcagcttgaa aactaggatg 240
gtgcctagca ttggggagtt tttgtcaaaa atggaggccc tgaaacaaa 289

<210> 55580

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G12

<400> 55580

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agggggctcg aaccaggcga gaataactga tataggcaac aacaaaattg tccccgttta 120
tgcttaccct tgtgtgtgtc tgtgaattgt tataccgccc tccctactgt ctgtacagcg 180
aagcgagtgc ttgcggacac tgggcgcgcg cagggaatgc tcgaggcatt cattaccggc 240
aaaccacgcc ccgagatcaa gatat 265

<210> 55581
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-020-Q1-K1-G5

 <400> 55581

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 atggatgctg catgctgggt taatttcttg tattcacgta aggtgatgct gttgtctcaa 120
 tttacaactg tgcattgctg tttttgtcat ccatgaggaa gttatgcagt tcggcaaatg 180
 ttgtatatgt gtgtagggtg atctgtatca atgaatagca tgattatatt gtaacagtat 240
 taggattcca tctctgtttc aagcactact ttaatttaac cccattatgt tatgcgtgga 300
 gatcaatatt tatttcaagc aanatttatt tattttatct ttatataata tattattttt 360
 aattttttta tttatttata ttatttttta attttt 396

<210> 55582
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-G6

 <400> 55582

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 aaaagaagtt ttttttttaa cagagtcgca ctcacccctt cctatcctta ctcaaaacca 120
 atctattttt tcttataaaa ccttttatat tctctcttat ctaacttttt actttctttt 180
 ttttatattc ctaatttatt cttccctccc tctcctttta ataataatct ctttcttccc 240
 tttatcctct tttcttccct tttttttttt ttctcctcca atatttcttt cctttttcta 300
 ccttttttcc acacatcctt tccatcatat ataactctct cctccttttt ctcccatatt 360
 tttattccct ctctttttat atatactttc tctcttttct cccctctt 409

<210> 55583
 <211> 465
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G8

<400> 55583

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cggcaccacg gcgcattagg atggcggctg ctgccccgac gagagcatag gtgctgtctc 120
tcttccgttc cttactccgc acggcgaaga agttctcgga ctacaacatc cgcgagtaca 180
ctcgccgact cgccgcggac tccttccgcy aaaaccgcgc cctcgccgat gcgtcggccg 240
ccgccgcggc gttctcggag gggaagaagc agctagaggt tgcgaagcgg caagcgggtg 300
tttactctct ctacgcccc aaggccaaga gcgtgatgga gttgaagggt cagtgatggc 360
tgcgaccttt tcttccccac cgttcccggt ccagattcgt tgcttttgtg tgatgatgaa 420
actataaact gtcctgttgt cgcattttct ggatgattgt catgg 465

<210> 55584

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H5

<400> 55584

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aactgcagaa aattgtgtgc gtggagacga gctaatatat tcattacgtt taaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagt ttttatttaa 180
aaaaaaaaaa aaaaaaaaaa aacatctaaa caaaaaata aaaaaaata aaaaattaac 240
aaaaaaataa taaaaaaaca aatatattta aaaaatatat aaaattggcg tcccccttt 299

<210> 55585

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E1

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tgactatgca acctgtgtga agatctccac tgatgcttcc aataaagaga tgaatcctgc 120
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<210> 55586
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E4

<400> 55586

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 agggcctaata cgcacacctca aacatcgtga caaaaacatg aagtcctggg gttattggta 180
 atctggtgcc attgtaagga catattagta ggggttggtt tgtggatcgc aagtttctct 240
 tctgctactg ttgctgctac ctttgctggt gttattgcta gggtcgaata ctttaagttaa 300
 ctatgcgctg acagtctgga ctacgaatgt tatgtgcgct gctggacctt gcgcgcaatg 360
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<210> 55587
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E5

<400> 55587

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 aattcttatt caggtaggtc gtgttgtaga cctacacata cctcgtgaca aggaaactag 120
 ccgacccaaa gggttatgctt ttgctgagta tgaaacagag gagattgcc agtatgccat 180
 taagctatctt tctggccttg ttgcacttca taataaaaca cttagatttg cggtcgcttt 240
 ccctttgctc tctcatttta cataagttat a 271

<210> 55588
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E8

<400> 55588

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agaagccatc catcatgcat gattctgaga caggtatgga ggttgataaa gttatcgatg 180
atattcatgg ggatggtagg gtgagctcta ttcttggcac caaactttat gttgctgcaa 240
gtgatgggga ttctgaagct ttgttgggtg aaagtagggt aaatttaagt cggataccta 300
attccccaga aagtacacat tgaacacctt ttattccatt ttaatttctt tttgtctgag 360
ggtcttctgc cctcag 376

<210> 55589

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-020-Q1-K1-E9

<400> 55589

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gcatatgac aagagggaaa agattttgct gtgacatata ttcagatgaa cggggccagt 120
acagcctctt cccacttttt tttagtctga tttcacataa atgttccctt tttgttgtaa 180
gggaagaatc tgacttcccc tgcactttgt atagtgcacc acgaagaaat tcctttgtac 240
ctaccttttc tttttgagag agttgcactg cacttttgcg gtctgagtaa gtcagaatt 300
cttttaatat ctattttttc taccactaat atgtgatatg gagaagggtc agtttggacc 360
tgattttggt gtgtgnnaaa aaaaaaaaaa aaaaaaaaaa attttttttt tttttttttt 420
ttt 423

<210> 55590

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-F12

<400> 55590

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 gtctgcagaa ctctttccag tgacgtcaat gatgtttaat cacgcaccta ttgattctga 180
 accactgaaa aatgagttgc acaaattacg attacacatg gacacactca ataaagtcca 240
 tgaaatgaag aaaacccaac ttcagaccgc atgtagccaa gaactagaga aggtaaagag 300
 aaaatatgat ttgttaatta aagaacatga ttccactcat cttcagcaaa agaaggcact 360
 tgggtgatttt tatgagaaag ttcagcgcaa ccaatcgctg gctgaggatt ttcgggccaa 420
 attcatatca c 431

<210> 55591
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-D10

 <400> 55591

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 tgttcagcgc ccttccctcc ttcattctca actccccctg cgtccgttcc tttggatctg 180
 aataagatgg tggatgatctg agtgggtggc ttagtttatc atgtatcgct cgcaatttaa 240
 tttaaccggt taagtgtgta tctgttaacc ccatatcccc tc 282

<210> 55592
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-D11

 <400> 55592

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 gtcaagagta tgcttcagaa catggcttgc ctatgctaga acatgtcctc cttccaaaga 180
 caaagggtt catttggtgt ttgcaagagc tgaggagttc cttagatgca gtttatgatg 240

tcacaatagc atacaagcat cgactcccag attttctgga caatgtgtat ggcgttgatc 300
 cttctgaagt ccacatccac gtcagaatgg ttcagctcca tcacatcccc acaacagaag 360
 acaagataac agaatggatg gtagagaggt ttaggcagaa ggaccagctc ctggcagatt 420
 tcttcatgaa ggggcacttt cctgat 446

<210> 55593
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-020-Q1-K1-D12
 <400> 55593

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 gatgggtatct ttggcgccgt gatgaaccaa ctgccattct atagaaatga aaggccccat 120
 gtgaacaaaa caccatatgt aacccgggtg agccaaacac cggtagcatc cattgcgaac 180
 caaagaccag tagcaaaagg aaggcacctg gtgagccaaa caccatcagc aaatgggaaa 240
 cctctgacga accaaacatc agtagcaaat ggaagatccc tgatgagcca agtaccatca 300
 gcaaatggga aacctctgac gaaccaaata gcattgccaa atggaagacc catgatgagg 360
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 ccccatataa acaaaata 438

<210> 55594
 <211> 164
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-020-Q1-K1-A5
 <400> 55594

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 accccccctt gtttttttta aaaaaaaaaac cccctttccc tcttattttc tttactctct 120
 aattcttttc attcatcatc ttctacctaa taaacccta aaat 164

<210> 55595

<211> 137
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-A6

 <400> 55595

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 ccggcggcaa ggcccc 137

<210> 55596
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-B1

 <400> 55596

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 aggaaataaa ggggcgccgg tcgcgaccta ggttcgtttg tccctctcct ttcgaggtat 120
 taccagtcca ccggttcctc ggagcacaat aaagtttggt gctgcctacc tgcttgctgt 180
 cctcgctgga aaccccagcc cctccgctga caatttgact gccattctgg agtcagttga 240
 ctgtgaagtt gacaatgaaa agatggaact cctgctgtcc caacttagcg gtaaggacat 300
 aaccgagctc attgccggcg gcag 324

<210> 55597
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-B11

 <400> 55597

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 catgcgggct caagataact ggggaagggg agcgttttac caagaccaac ccttatactg 120
 cccttgata ctgctgcact cctcactaaa aacctttacc tccataacag atatatatat 180
 ctatcgtgta ctaacttcta acattttttt agctttggaa ctaacagaca cttgtattat 240

agtgcataaa atacctatcc ccctccgtgg ccatataacc cttaagtcga tctatctttt 300
aatgaggcgt ttgacgtaa 319

<210> 55598
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-B6

<400> 55598

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cttacattat gatccattat ctcttcagct actgctagtg aaagagttgt ttgggtcatg 120
cccacaaact aagcatgtca caggttctta ggcatatggt tttgttagga g 171

<210> 55599
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-C11

<400> 55599

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catcatcata tcatcttccc ttccttcattg gattgatgct tgtctgccct ctgcttctgc 180
tgcctcctat actccttctt cttatattga taaattccga ccaactgatt ctacacttct 240
acaatttaaa ctactatctt tctattctaa atatacagat atacatcttt aactgttttg 300
agcctataat tctatcatgc tattttatct ttttcatatc ataatttgct accctaattt 360
tttatttc 368

<210> 55600
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-G6

<400> 55600

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gctattgcaa aagaggctgg ggaagatact tctaatacag aacataacaa tgtcccaagc 120
tcaaacagtg attctgttat ggctgaacga gaacctgcct caaatgcttc tactgggtgac 180
aaagaacaac caaaggatga tgactatcta ctacaacaag cacttgcaat gtcaatggat 240
gggtgggtgctt caagatctgc agctttgact gactctgcta tggcagaaac tgggtgcattt 300
gaccctaact tgtcatttgc tcttcaaagt tctttccaac atgcaaacaat gtccagttac 360
acttatatga ataaagtgtt ttaagacaga acgtttgtgt catcta 406

<210> 55601

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-A10

<400> 55601

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tgcattctgta cttttacttc tactctataa gtcgtgtcca gaaacgacta ttacttaaat 180
ttgcaaacc ccatTTaaat gcatcatggc tgcagcgtaa tcagagcgta actctaggta 240
gcacttgatc tgcaaacaca catttgattt tctcatggac tcaccataaa tgagagattg 300
atagtacttt cattatataa ttcacacatc gcgttttcta 339

<210> 55602

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D5

<400> 55602

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cattggagaa acagttctct ggcaatgctg aatctagggc agcaggaatg gttatcaata 180
caatgggggtg ggttgaaggc cttgggtatg agttacttct caacgcaatt gaaaccttca 240

aggccaatgt agtactggta ctgggacagg agaaactctg gaagatggtg aaagatgcag 300
 ttcaaagcaa gtccaacatt gatgttgtaa aacttcataa atcagagggg gttgtcctca 360
 gaaattcaaa atatctgcaa agaacgagaa agcttcgaat caaggaatac ttttatggga 420
 ttgcaaatga tcttgcaccg tactcaaaca ttgtcaattt cagtgatgtc tccgtgtata 480
 aaat 484

<210> 55603
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-019-Q1-K1-D6
 <400> 55603

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 gccgaggcct tcttcccctc gctccccage tccagcaagc agatcatatc catccaacca 180
 cgaacaggaa ggaaggtacg aggcctgaag ggctgggctg aagttgaacc atgagtgccg 240
 tcgcgggttc gtgcgcgtg aaccctaacg cgccgctctt catcccgcg gcgctgctgc 300
 aagtggagga cttctcgccg cagtgggtggg acctcatcac caccaccgtc tggttccgcg 360
 accactggtc ccgctagcac gccacactgg atgagatagc cgagcagctc gagttgggtc 420
 ccctcctttc ctacgatgaa gatgaggacc tcttcta 457

<210> 55604
 <211> 68
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-019-Q1-K1-D8
 <400> 55604

aaaaaaatca caaaaaaaaaa aagtttttat taaaaaaaaa aaaaacaaaa aaaactgtaa 60
 gagttaaa 68

<210> 55605
 <211> 373

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D1

<400> 55605

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ctttggaatc ggagagaaaa tggggaaatc ctccaccagt agagaatggg tctgctagca 180
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gaagttggaa ctggttagatt tttcgtggca cgagtcttac caacaaagac agggctttta 300
aggggtggtgc gactaacctt ggcagatagg ttccaaggga gcctgacaac gcgctcaata 360
aaaataattc aac 373
  
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<210> 55606
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-A8

<400> 55606

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tcataacttt ccaattcatt ccctaaata catttcactt accctcaatt aacatcacc 180
taaatttaca aaacccttac ttaacaaacc ttaatctact ctaactaaat ccctttcct 240
ccaatcccca tattacccat tatctcctta cctatcacc ttacaaccat ttcc 294
  
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<210> 55607
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B3

<400> 55607

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tgtaagtaaa aaaaagaaaa aaggaaaaaa aaaaaaaat aaaattaaaa aataaaaaat 120
  
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taaaacacaa taataaaata aaaaaaacia aaattcaaat caaaaataaa attaa 175

<210> 55608

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B8

<400> 55608

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gccatcacgg agaacttcaa caccatctag gccatcatgt actgggtccc cttgcacaag 240
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tgcggcttca agcacaccaa ccagtacccc ttcattgtcca tagactccta ctgaaacat 360
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<210> 55609

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C5

<400> 55609

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aagaaaatct ggggggtgtt ggaagtgggt ggccgggtagt acagaggtct ctgacgatga 240
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gcagcttgtc tgttgccagt tgccgggtgc ttcctcaagg tcttgctcat gggtgatctc 360
gaaaatatgt ctcccgaat aatcttggtt atcttcttcg gtggtggcac ctggtagaaa 420
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accaaata 488

<210> 55610
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-019-Q1-K1-C8

 <400> 55610

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 aaggccatca atttttttgg gcggcttgta agttatttga gaatcccacc tcaggttgat 240
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 cagttgtcta taacgttgcg gcttcattga ctgtctgtgg tataagtttt tattattttt 360
 taattttttt gtcaacaaga cattgtaatt ggtgtagat tggt 404

<210> 55611
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-014-Q1-K1-G2

 <400> 55611

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 cagtgggctc agatcgatgt gctgtgggta cttttgtgca agccgttcgg tatcgtttat 300
 gtatctgtag gtatccatct atggcttang aagcctgatg aagtctcgac tctttataat 360
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<210> 55612
 <211> 200
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G3

<400> 55612

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agccaccact aacatgccgc tgaagaacgc catctgatac aaatgcaaca tctctcactt 180

caatgctaata aactatcaca 200

<210> 55613

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-014-Q1-K1-G5

<400> 55613

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tccacctaca ccttgctcgt gctcttctgg gcagaaatat accatcaggc taggagtctc 180

ccaacggaca agctaaggcc tgcatacatt gccgttaacg ccatcatata cgttgttcag 240

ctttgcatat ggatatacct cggaataaat gataatgccg cggttgagct ggccagcaaa 300

atattcgttg tagctgtctc ctttgttgcg cttcttgggt ttcagtatat ggtggaaggt 360

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<210> 55614

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G6

<400> 55614

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ccttcagagg cactgactag ctcatgcatg accaccttcc tgcccccggtg gttgccatga 180

gatcgaacta ctgcgcaatt cctaattaat gagcatggcc gcatgcagct gcctgtgcta 240
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<210> 55615
 <211> 297
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-G8
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 tatatcgtac ccgtgttctg tgtcttgagc gcccagagaga taaggattct tcctgtgcaa 180
 gtttttggtg ccctgttcgt tgagcacttt gtttgattcc agttaaggat ttgaatgatg 240
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<210> 55616
 <211> 209
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-H1
 <400> 55616

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 actgaaacct tacaggccac tttgcatgag aatacgctt acatactgaa aacccaact 180
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<210> 55617
 <211> 221
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-H10
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 tggataaatt gattaacatt tatagatact tccatgttat tcacatcatc ttaaccgtta 180
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<210> 55618

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-H11

<400> 55618

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 ggacatagca acattcacca gaaagaaaca aaatcacaaag tatggatcat atgttaaagc 180
 cgataagggt gagctacacg ctccagataa ccacgggttg gtcctttaca aagcaactgt 240
 ttcttccagt gctgggcaca cattaactgg tatcaacatt gtctgcacat tgaaatttac 300
 tggcgaaatc agtccagaat cagaagatgt cgatggaact tcaactgtatc aggcatcact 360
 aggccacctc agtattcgaa atactgacaa aaatacagag ttccctccag cagaatcttg 420
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<210> 55619

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-H3

<400> 55619

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 aaggagtga ttaaccaga tataacagt acgatgaccg agaacactcc tgatgatccc 120
 cgccagagga agccggacat caccaaggca aaggaagttc taggggtggga gcccaagatc 180
 gtcctgaagg acggcttggt gtcctatggag gatgatctcc gggagcgcct ggccgtgccc 240
 aagaaaacca aggcctaaac tgccctgcgg tgggcgaaga atatccacgg gggagcatac 300

tcatagttgg cttgtcatta ttogtggcca catttcatta cggaatttga gttccaataa 360
acggaatata ccttcttcga tcaccttgaa ggattgtatc attagaattt tcatacaagg 420
ctggcctttt gagtctc 437

<210> 55620
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-014-Q1-K1-H4

<400> 55620

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ttggcgtcga ggagtaaaga gttcttccca gttattttca aagaactctc tcgagagcat 120
gacaaagtga ttgcttgctg tggagatttg tcttggaat aagcacaacc atttgagaac 180
accagatttt gtcgaatttt cctttccttt tgatgaatat ttgagcacgt ccatgtcaat 240
accaaacatc tggccttttc tctctctctt ttttacatat gtttatgtgg tcttagcaag 300
tagttgtgct cgactntgog ttatgaggta tgccgtatgt gattggatca cggtgaccta 360
acaggccaaa aaaaatagat cacct 385

<210> 55621
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-014-Q1-K1-H9

<400> 55621

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aaggccgcac tgatcgctgt cttgactcgc ggtggcacca cggccaagct ggtcgccaag 120
taccgccccca gggttcccat cctctctgtt gtggtaccog tgctaacgac ggattctttc 180
gactggacca tcagctccga gggcccagcc aggcacagcc tgatctatag aggccctcatt 240
cccctcctcg ctgaggggctc cgcgaaggct acggattcag agtctacgga ggtgatcctg 300
gaggctgcgc tcaagtcggc cgtgcagaag cagctttgca agcctggtga tgccattgtg 360

gctctccatc gtatcggcgt cgccttnctg catcaagatc tgcacgtga agtgatcacc 420
gtgacttgac tnctaagtcc caaggggtgt ttc 453

<210> 55622
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G12

<400> 55622

agatcaaatg caagagcatc aactgtttat tgatgaaaaa caatgtgccg agcacagaag 60
gctttttaac ttggaagga gtgatgtttg caaggtatcc aaaccaagat cagtgaaggt 120
ggagaaattg atgaacattg aaagatactt ccatgttatg cacatcatct caactgttaa 180
tggacagttt gatgatcatc ttcagaattt ggattccttt agagctgcct tgcccgtttg 240
aacagtcagt tgtgcaccaa aagttgaatg ccatggagtt gattgataag tttgaagtta 300
cgaggcgagg accatatact ggttgtctaa gatgaatatc gtttgattgt tacatgcaaa 360
ttgcactttc tc 372

<210> 55623
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E12

<400> 55623

accactcat ccgcacaacc ttccgcagac tcttaagctt atttattcct catttaaaca 60
cctctacagt gagatctttt atcccgaaca ttgacaacta cctattccaa cactccacac 120
tgattataac acataatcta catttcaaag accatccaca tttttctacc acatataact 180
cccaaactta ttaccattt atcaatcaat ttaatccata tatacttcta ttcctatc 238

<210> 55624
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-014-Q1-K1-E3

<400> 55624

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cgacctcgac atgctcaggg cgctgagcct cagctcccc cgggccgccc ccgcgccgtc 120
gccgtcgccc ttgctgcgcg cccagcagca gaggcacgcg gacaggccgg cgcaccacgc 180
cagggggcgcc gcgcgccgcg tcatcatcca ccagcctcgc tagaagcagc ctgatcatgg 240
cgggctgccc ccatggctgt tgtgcctagt gtaacctcaa gcaagtctag tctgtttctg 300
tctgtgtata cgactaataa aacaacagat gggggattcg gacgaggcgg tcagtgtctt 360
ctcctcatag ccagcttctc ctgttcaagc tcagttcttg ttcattccagc agagcacata 420
anaaaaaacag acaggcagag tgat 444

<210> 55625

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E4

<400> 55625

atcaaacaag atccgtttga catttttagca tattggaaga accaaacaga taagtatcga 60
attctttccc aaatagctcg tgacttaatg tctgttcaag tgtcaacagt agcatctgag 120
tcagcattta gtgctggtgg ccgagtcatt gatccatatc gtaatagact tgaccctgag 180
gtggtggaag ctctaatatg caccaaggat tggataaatg cacttagaga agattctaaa 240
agcgttctt 249

<210> 55626

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E5

<400> 55626

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cgccgccgcg gacttgctcg cggctgctgg ttccctgcac gcgctgcgcg tgcggcgcgt 120

ggaggacgac gacgcaagca gcttcgtgga ggaggcggcg taccgcgcca ggagggcgct 180
 gtacggggggc ggggtccatca gctacggggc gctcacgcgc aacaaggccg tctgctacgg 240
 ctctgtgcgc gctcgtgggc aggcgtatac ccgcggctgc ctggccatct acgggtgcgc 300
 aggtggccgt taattaacca gaagcagcgc gtagctagca gtcgatgtct gttaattaca 360
 tgtctgtttc ttgtgctgct tctcgttttt cttctaatac ctttctcttg cttcaaacia 420
 gccaatatcc gatccatata tacatgttgt c 451

<210> 55627

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E6

<400> 55627

cggacgcgtg agcggacgcg tggggcggacg cgtgggcaga cgcgagggtg tggatgttgg 60
 cctgcacttt gaagagcaat ctatatgaac cagaggcat gctgataaaa aaaaaaaaaac 120
 aaaaaaaaaac accaacagaa gaaacagaaa acgaaatcca aaacaccgaa agaattggaac 180
 attcaaaacg aaagaggaca acagctccaa gaagcatgag gtgaaagact acattgaaac 240
 aaggg 245

<210> 55628

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E7

<400> 55628

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaagccaa ccaaagtagg 60
 tgttccatac ttacttaccc ttccatacaa aaatgtcgcc catttttttag gttcccttac 120
 tttctattcc ctttgcccc ctttttaacc tttctttctg gttaaaccct ttcatttccc 180
 taaccttttt tctttaccct ctttttcctt ttaccctttg gttcctcacg taaaatccct 240
 ttctaaaata ccctttttta tcttgtctct ttaattatta atgttccctc cttttttttt 300
 ttacaattat ttcctccttc tttttttttt tcttccccct tttttgtttc ttttttttct 360

ccctctataa tttttttttt tttatatatt tccttctttt ttt 403

<210> 55629
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E8

<400> 55629

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ggtggaggcc gcgcgcgcg tctggagag cggcagcccc ctggtcccca acaggatcag 120
ggagtgccgg tcctaccgc tgtaccggtt cgtgcgcgag gaggtcggca ccgagtacct 180
gaccggcgag aggaccaggt cccgctgcga ggagctcaac aagggtgctcg tggccatcaa 240
ccatttc 247

<210> 55630
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E9

<400> 55630

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tacgcctaca cgctgaaggt ggacgagaag agcgacgtgt acagcttcgg cgtggtgctg 120
ctggagctca tcgccgggcg caagcccgtc ggggagttcg gcgacggcgt ggacatcgtg 180
cactgggtgc ggacggtgac cgggtcgagc aaggagggcg tgatgaagat cgccgaccca 240
cggctctcga cggctgcctct gtacgagcta acccacgtct tctacgtcgc catgctgtgc 300
gtggcgggagc agagcgtgga gcggcccacg atgcgcgagg tcgtgcagat actggccgac 360
atgcccggtc cgacatccac gacgtccata gacgtgcccc ttgtcatcga gccgaatgag 420
gaggactggg gcccgagaaa agagcagcag cagcagca 458

<210> 55631
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F1

<400> 55631

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atgctgtgaa ctagagggtgc tgcacacctg tgttcctgtg ccccatccaa tgtgtatatc 120
tcatatttgt ccgtgtcaca tgaatgctct gttatttgta gctcaacaga tacgtttttc 180
tccccctttc tgatgtatga agtttgatct tgcc 214

<210> 55632

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F2

<400> 55632

accacgcgtc cgaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaagg 60
aaaaggaaaa aaaaaaaaaa aaaaaataaa aataaaaaaaaa aaataaaaaac aaaaaacata 120
ataaaaaaaaa attaaa 136

<210> 55633

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F3

<400> 55633

ggaattttgc atgagcacag tggtgccctt aagttttgcc agtgagcatt tgcaggctgt 60
aaatgggtgg aatgaggctt ctctggcat tagattgcaa tgagattcct cagagacagc 120
tggattatgg atgacttaga aactatatat agcagtgatc ttgagcttcc tgtgagggtgt 180
gagctgacca agtgagcaat caccggttta ggctgtatgc ccagcttcgg tgcagagttt 240
tgtataatgt tcaaatccct tttgttcttt atgtttgtat ttatttttta aatagtgcta 300
attcccttaa aaaaaaaaaat cttttttata aaaag 335

<210> 55634

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F4

<400> 55634

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ggtcaccatt tgattgttgg atgctcacga tgtaatcgag caattaaccg acattgttct 120

ggtaoagaatg agagttatag gagttgatca tttttttctc tggttcagaa ttccacttgt 180

atgattggat gagctccctg tttattatga aaactaaaag agaatgatgt cattatggga 240

tgaatcatgt gtatggcttg gtaaaaaaaaa aaaaaatata aattaattta atat 294

<210> 55635

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F6

<400> 55635

gaacatttca gtagaaatgc tactgttgtg gtctcccatc gttgactttc atgagcgtgg 60

tggtaaacat cggttctgct cctgtcctgt attcatcgga tgcaagtata acacatgctt 120

ggcttgggag gaggaagcac aaggagctat tgccacctag caaaaggata aaagggagga 180

tgacgaattg gcgatgtgtt tgtgacacgc tgccctcaag tgtggatgat gagtgcagat 240

atgttgggtga ctgtgccaa gctgtcaagt gtgtaaacta acgctgtctt tgtat 295

<210> 55636

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-014-Q1-K1-F8

<400> 55636

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gctgcagaaa gagatgatgg cgttccttgc caacacagag aagcacaagg acattgagggc 120

ttgcgacgag gtgatatctg cttcgatcaa gaagatccat gagcaccgca ggaggagggc 180

attcttctctg ggttttcagcc agtccccagt ggagttcatc aatgcattga tagcttccca 240

gagcaaggat ttaaagctgg tcgcggcgga ggcgaataga aacattgaga aggaaagacg 300
 tgccgacttc tataaccaac catgggtcga agacgccgtt ataagatact tgaaccgcan 360
 accagctaat g 371

<210> 55637
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-F9
 <400> 55637

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 ggggttatga agcttcggag tacctggcat agttctactg tgttcccat aacgagagag 120
 aatattaaat aacaccacaa ttgaagaacc aaatagtttc atatgccacg agctgaggac 180
 aaaatatttg caagagtttt cttgctgctt tctactcctg tgcacgagga caaataattg 240
 ctgatctggt gagttttcca tgtggagatg ctttcaaggc atatttgcta catatgcaac 300
 attttgaacg gacaacaatt gtcagaccaa ttctatgtcg atcactttct gatgactgat 360
 tgacagatat tcatgtatgc atactattta cttttaaa 398

<210> 55638
 <211> 117
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-G1
 <400> 55638

gtgcttgtaa tataacttgt tttttcccc ttcatttcca gccccgatgt aacaggccat 60
 tttggttttc taggtacttg gtgactcatt tctagcaata gggctgtcat gttgtac 117

<210> 55639
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-E11
 <400> 55639

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atagaaatcc aaaacggtga cagctaccga ttccaacagg caaaattgag tataatacat 120
gatctacttg ggaaagtcca tgcagctgtt gttagcaccg agaaaggcca agtctataga 180
gcattgctca atgagttgaa tgcagaaaga cgtcaatgcc gatctgggat gcgagatttg 240
ttcaataact cttttggtgc aacatttctt acagacacgg gaagggaatc atcattttcc 300
tatcacattc atcaatatgc cgatatttac acgagcaagc ttgagaactt tttatcatat 360
gcccctgaat cttggcttca tccacctcat gacataaaga tcatgccaca caatgcgaaa 420

<210> 55640

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C1

<400> 55640

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tagtcatagg catatacggg tatacaaaac tcatactcaa aacctactga atgaacttcc 120
cttcagctac agcaagcaac tcaagacgca gcatatacaa cgatgggtgga gcaccagcgc 180
aatttcctgg gacccaccg ttacatgcag aatagtttgc ttgaaaggat ggtgcacaaa 240
atagtttgcc attcctcctc tctgaggttc tgctaaaaag catgttgctt ttgaagatcg 300
tcggatttcc agacgacgtc ctttaagggc ttggaaaggt tcttgtagaa cttatgaaat 360
tcag 365

<210> 55641

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C10

<400> 55641

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gtgccacgaa accaccggtg gatggggcgc tgctccggat ggaccgtttg cctgggggata 120
ctgccgggtg aaggaacaga aacagacgga cccaccctac tatggacgag gaccataca 180

gctaactcat aagtacaact acaggctcgc cgggcaagcg ctgaacctga acctgggtggg 240
cgacccggac ctggtggcga gagaccccggt ggtagccttc aagacggcca tctgggttctg 300
gatgacgccg cagtcgcca agccctcgtg ccacgccgtg atgaccggcg actggaggcc 360
cttcgtcacc gaccgcgccg cggggagggt ccccgatac gggctgacca cgaacatcat 420
caacgggtgt ctagagtgcg gcg 443

<210> 55642

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C2

<400> 55642

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acgccaccgg cactggagct ggagggaagg cgaagaagg agcggccggt cgcaaggccg 120
gcgggccgag gaagaagtcg gtgacgaggt ccgtgaaggc cgggctccag ttccccgtcg 180
gccgcatcgg gcgctacctc aagaagggcc gctacgcgca gcgcgtcggc agcggtgccc 240
ccgtctacct tgcggccgct ctggaatacc 270

<210> 55643

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C3

<400> 55643

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tgtatgtatt tttgatatat ttactgatg aaatagtggg ttacagagtt ctaaaaatga 120
tcttcttggg agatcacagc attggaaact gttggaaaaa atgtttaaca attcaatcta 180
tagttccaat tggtgcctgt atagcaacaa g 211

<210> 55644

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C6

<400> 55644

tccgacgcat gtgccgacac ctgctcagac tcgtgaaccg acgcttcgga aaaggacagg 60
aaaaaaaaact atagat 76

<210> 55645

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C7

<400> 55645

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taacctagtt ggagaagctg gaacaaaact ctagccagta gcactaacag actggtgata 120
ggtagacatg atatgttact tcgctggcga aagttttcat gagtcagcgc tatttgaggg 180
ggattttaac attcattctt tgggtgtagag ccattcgtct tattattaca tcatttaatt 240
cattcttggt aagtactgaa ataaggggtg atatctcgct tcatg 285

<210> 55646

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-014-Q1-K1-C8

<400> 55646

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tattgacatc ggcgatgacc tggatgttga tgaggcatgc aggttcatga agattggcct 120
gctatgcaca caagatgcaa tggcgcgtcg tcccagcatg accaatgtcg ttcggatgct 180
ctcaggggag aagagaatca acgtagacca gatcactagg cctgccatga tcaactgattt 240
tgctgatctc aagatcagca acaaggagca aaaaccaggc gacacacgct ctnccacgac 300
aactgctacg acgaaatcat tcaccaccac cgaaccattc tcgtcgtcag agacgcccac 360
gcagtcattc atgtgaaagt gtggcataag aagcagtttt ttttggtggt tcagtttgat 420

agtgtgtgaa tgtggta

437

<210> 55647

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D11

<400> 55647

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gagcatataa aaaacaagaa aaaaaaaact aacaaacaaa agaaccacaaa tctttataaa 120

aacaaaaaaaa aaacaaatta aattttcaac atcatactcc ttatttctaatt ttaactaaca 180

aaactt 186

<210> 55648

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D2

<400> 55648

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cgaggtgccc aagaccgcgg agaacttccg cgcgctgtgc acgggcgaga agggcggtggg 120

caagtccggg aagccgctcc actacaaggg ctccaccttc caccgcgtca tccccgagtt 180

catgtgccag ggcggcgact tcacccgcgg caacggcacc ggcggcgagt ccactctacgg 240

cgagaagtgc cccgacgaga agttcgtgcg caagcacacc tgccccgggtg tgctctccat 300

ggccaacgcc gggcccaaca ccaacggctc ccagttcttc atctgcaccg tcgagacccc 360

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ggccatcgag aaagtgggca cccgc 445

<210> 55649

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D3

<400> 55649

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ctactaccta acaaacggat ccaactggta ctgggtcacc tactcttact aacgatggcc 120

tgccaagaac ttaaaactgtg cgtgactggg tctattaatg catagtgtaa attgtctgga 180

ccactaccaa tatgttacc aagccttcac gttcgttat acagcgtcaa tctggatctc 240

catgaccagt actagctagg gagtgtgtga catgtgcatg tgctctgtag actgttatgg 300

cctcttcttg ttttcattgc atgcgctctt tgtaccatgt aaagcctctg a 351

<210> 55650
 <211> 160
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D4

<400> 55650

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cttgactaa attgattgat ggaagttgca tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaac aaaaacaaaa aaaaaaaaaa aactaataat 160

<210> 55651
 <211> 169
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D6

<400> 55651

tttctttttc atttcatttt cttttcccaa attcttcttt tttcattttt tattttttatc 60

ctttatatcc ctttttcttg acttttatct cttttttttt tttccttttt tttttttttc 120

cttttctctt ttatatatttt tctattattt tgtctctcct tatttttttt 169

<210> 55652
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D7

<400> 55652

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gcgatttgaa ccttaaccta acaagatcaa cggctagggg caaactaaaa cggagcgcaa 120
cggaattctg ggtcacctac tcttagcaac agttagcttg gcaagatctt tttccgtgcg 180
tttactgttt cttcttatgc atcgtcta 208

<210> 55653

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D8

<400> 55653

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ccatctgaaa aagatcgcaa aaaacaggaa tggcgcttga ggaggtgcgc tcaacgccag 120
atgtacagat gctaggatgt ttgctctgcg tgagaaaagg gtgcacgtta cacaggaaca 180
cttctagatg gccacagcca aggtgattaa aacagacaca gcgaagaaca tgtccctgcg 240
caagctctgg aagtgaggct catgccttga tgtaccacc gtcacctttg acggactctt 300
cctgaacggg gtaacggcat gctacagacc ttttgcgacg tgccttgcat gcctgtgttt 360
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<210> 55654

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A2

<400> 55654

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gagagaaata tcattccaca ggtaccattg tttaacatac tgaagaagtt cgatggtgag 120
acagttacag aggttgctcg accttcatt gcccgatga ggtaccgagt cactagactg 180
ccgaagtatc tgatccttca tatgcgaagg tttacaaaa ataacttttt tgtcgagaaa 240
aacctactc tagttaattt tcctgtgaag aacttggagt tgaaagacta cattccatta 300

cctaagccga aagagaatca taagctacgt tcaaagtatg acctcatagc aaacattgtc 360
catgatggca aacctggcga gggatgct 388

<210> 55655
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A3

<400> 55655

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tatgagacta ctggtactct gtcgatgtcg attggattag actagggctg gtgtgtattc 120
tgtggatgct ccgtgtttct ggtgggattc aagttcaacc ctgggattat tgtatttc 178

<210> 55656
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A4

<400> 55656

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ggcggggata tttgcttgcc cggctggggg tgcggcggaa ggagggagag acaaccggcg 120
atggcggcgt ccgcgaggcc cggggatagg gcgaccagct tcgccgtcgc gtgcagcctc 180
ctcagccgct tcgtccgcca gaacggcgtc gcggctgccg agctaggcct caggatcaaa 240
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gaggaagtcg aaaggaggaa ggagaccatg gagctgttcc cgcagagcgt cgggttcagc 360
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acaatcttct atggcgggga ggtgctggt 449

<210> 55657
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-014-Q1-K1-A6

<400> 55657

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gctttgtgag gtacagcacc catgaggagg ctgcattggc aattcagatg ggtaatggcc 180
aacttattgg cgggaggcag ataaagtgtt cctggggaag caagccgact ccacaaggga 240
cagcatcctt gcctctgcct tccccagcac tggcaccatt ctccactgga gtgtcggcca 300
ccgacttgct ggcctaccag cgctgactc tgagcaagat ggcctcgaac ccagccctaa 360
tgggtcagca cgccttgaaa cangtcgctg cattggggat tggc 404

<210> 55658

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A7

<400> 55658

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gctgaccgat atgccagtag gcaccttata tagtacttac agatctacaa aaagtttgta 120
ctatacatat atggacaacc ttataagtgg ctatgagtgt acctatacta acgcttatcc 180
caaagtgtgt atcagcgtca tattgtgaga ttgtgttcaa gcaaacataa ttcaaataac 240
aaagtattct tgaatgtgcc ttacccaaaa ctgacaccat ca 282

<210> 55659

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A9

<400> 55659

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attgaggcta aacaatggcc agcatccctt cagcctatca aacattgctt cagttcttga 120
tgtcaccgag aagcttcagt caagacatga gactttgcct gagaaattcg ttgagacact 180
gaagctgatg gaacaccgat acggcgcaaa ggacttcgag acgagcagag acacgagcct 240

actgcagccg ggcgcattct acctcaccaa ggtcgactcc atgtaccgga ggttctattc 300
ccagaagctg tccgaggaaa caggcggcgg gaaaaccaag tgctgcaacg gcctcgcaaa 360
tggccactag tggtcgcccc gcaactgttg tcattcattct cagtattttg ataagtctca 420
t 421

<210> 55660
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B2

<400> 55660

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ggagagggtt gaatagggat gcgaacttat tcaaaatata acgctgcatt taatccaact 120
tcatttgcta tactctgtaa cagactctct cagtcctac atgcgcgac cctatcgaac 180
gcaaccacgg gaaaagttta acaacatttg gcaactgtaag tgccatataa catagtctcc 240
atttcaattg ccgcttcagt gctgctgtca caatattatt tcggcatgac atcatttatg 300
tcaggcgggc tgatggccct t 321

<210> 55661
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-014-Q1-K1-B4

<400> 55661

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gagatagcat ggtctccaaa gatgtcctga agctgcgagc caaagcggtg aaaaagctcg 180
gaacgatatt ccaaggcgca gagtctatgt accgtcgtga aaacagcctg cgcgttgaaa 240
cgagcacaga ccaacaagcc gcttcgtcac actgaagcca cctgtggacc accgtgtagg 300
aatggatttg gtgttttgtg tgtgtgtgtg gctttctctt ttgtttgtaa ttgtgtatgc 360

tatattaatt ntctttaga agatgtgaaa catttaacac aaagatttta actgctattg 420
atgcagaaat taacctgcag cttgctttt 449

<210> 55662
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B5

<400> 55662

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acaccggatc ccaaggaagg ctttcaaaga ctgattgatc cggcgctcgg cgaggattac 120
cccatcgact cgatccttaa gatgaccgtc ctggcaaggg cctgcacgca cgaagacccc 180
aaagcaaggg ccacgatgag atacatatag gggcgctctt aaacactcgt gttaaaacga 240
gcgatttctg acacatgaac gctaccaag aaaaccaagg tgctcgagaac cttatgttcg 300
ggagatgact tctgtccctg tgggctgtgg tatatattat tgtacgtgct acctgacttc 360
ccctgggcaa ttgtacatta aggcataat 389

<210> 55663
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B6

<400> 55663

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actggaatgg ccgaggtttt gctggccaca gctcaagtca caaaaaaaaaa aaaaaataaa 120
aaaaaaaaact aaaaaaaaaa aaaaaaaact actagcaaa 159

<210> 55664
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A10

<400> 55664

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ggcggcggaa gggttccagg cggtgcgcgc ggcggggagc agggccgtct gcgtcactgc 120
catgcccagg gtcattggtg acggcttcct ccgggagtag ctccgcgtgc acgccgtggt 180
tgccagggag atgaaggtg tctgggggtt ctacaccggg atcatggagg acgcgcggcc 240
ggccgagggg gcagagatgg tgaagaaggc ggcggaagaa cagacggtcg tcgtcgggta 300
ctctgcgtca atggagtttc ttaaccatcc tctctcacgt tgctgcaagg agctcatctc 360
ccccatggc cgcaccgtgc cgctgacgc ggaccgggac agcgacggcg ccgtcatggc 420
gcgccttctg gaccgggcaa cctcgtcgtc gtc 453

<210> 55665
<211> 461
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-013-Q1-K1-G1
<400> 55665

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gaactctgaa ctagaggacc agattaagca tttgggagtg gaagttggtg cttggcagca 180
tagggctaag tacaatgaaa gcatgatcaa tgcactcaag tacaacttgg aacaggtttg 240
tgctcaccag agcaaggatt tcaaggaaag ctgcggcgat agcgaggtag atgacacggc 300
gtcctgtcgc aatgggtggtg ctatcaattt tcaactgact ccgaaggaga acagacaacc 360
gaaggatttg acggcttgca tgggtctgca atcaagttag gcatccatgc tcttgctgcc 420
ttgtcggcat ctttgtctat gcaaggagtg cgagagcaag c 461

<210> 55666
<211> 245
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-013-Q1-K1-G3
<400> 55666

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gggtgtacgg gccgtcgaag aagggagagg agcagatgaa ggcggggagg aagaacctgc 120
 ggcgggcggtg cgacgagggc gccgtcgta cgctcgccga gggagagagc atcatgcaag 180
 tcctcacgct gcgcggctac aacgtcatcg aggtgatgga cggcgtgggc gttaggttcc 240
 tggcc 245

<210> 55667
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-G6
 <400> 55667

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 atgtttgtgt aacagttatt attcatcggc aacactagga ctttgggtgg acgcggcagt 180
 aagcatgtat ttacacaaat actaacacac tggctcctgta ttgattggta ctagtTTTgg 240
 acc 243

<210> 55668
 <211> 127
 <212> DNA
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 <223> Clone ID: LIB3088-013-Q1-K1-H1
 <400> 55668

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 aagggtg 127

<210> 55669
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-H5
 <400> 55669

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 tcttcaacac cttgcaacat ttgatgagat caagaaactc ttggcttaac cactattacg 180
 aagaagacaa actatatgct gtgacaccag cccaaccatt gtacgggact ggctatgata 240
 attatacaag tgaaccgaac aatcccgag aatccaagtc cagggctaaa aaaacacaag 300
 aaccctgtat tgacatattg ccttagctct atgatattgg t 341

<210> 55670
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A1

<400> 55670
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 aaggaaagggt aaaattaaaa aaaaaaaata ataattacaa attaa 105

<210> 55671
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-D7

<400> 55671
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 ctgtcgggtca accgatgacc tgtcgaagtc gacattgcag caaattcatc accaaaagggt 180
 agcaaggact atagagctac tgacacaact atcatgggtgt gtgaaatcat ggacacattg 240
 ctgatacgac agcaacctgc tacagccacg agatcatgaa ggtctaacat taacggcata 300
 catacacgaa tctcactgct gtgtcgaaat cacagaatgc tgatgaattc acaccggctg 360
 tataactgaac atccatgcct atgactagca cgctgaacga 400

<210> 55672
 <211> 459
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-013-Q1-K1-E1

<400> 55672

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gggtatttgc caaataaagg aggcacatga agtcaagcgt gcagccataa atgacatggc 120
aactatggag aagcaaggag gtttttggac caagcctctg atggttagaga aaggggcagc 180
atattggaag ttagatgggt actgtgataa ctcagcaata ttgcttcaag agtatgggtg 240
cgatgaatta atggcaaata aagacaagtg gtttatgttt actgaagacg aggagaaaat 300
aattgaaaaa catttagcca ctaggtaatg agtttgtctt gccacgtttg gatgtgtttc 360
tacctttcca atgatggga acttctcttt tgttgcttgt atatcatgaa atttatctgt 420
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<210> 55673

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-E4

<400> 55673

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gcagtgcgag aaaccagtgt acagagcgta ccagcttggc ctggcagctg cagtgtctct 120
ggtagttgcc cacgcggtag ccaacttctt cggcggttgt gcctgcattt gttcccagct 180
ggagttcatc aaggcgtcca tcaccaggaa gctggcagcc accaccataa ttttttaatg 240
gatcgccctg attgccgat tctcgtgct gttcgccggc gccatgtcca actccaagtc 300
caagacgtcg cgcgggttca ctcacggaca caccttggcc ctcagaggga acatgcgctt 360
tgtacacggc gggatcacgg tcgtattata cgtcacc 397

<210> 55674

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-E7

<400> 55674

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ttgtgttacg tttcttcgat gcgtgagttc atggagagat gtcacatcct agttcgtcgt 180
caccgtttgc catgggtcca atggctcgtc ttggaaacct gcacttcagt aggccatcta 240
tcgtggtttc tagctatatc cagagttttg tgctaagaca aatcagtcag tcgttttgtg 300
aacctattat gatggagctt tatttgctgc taatatcgac ctacctatta agt 353

<210> 55675

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-013-Q1-K1-F1

<400> 55675

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catcaagtgc gcgtgatga ccaccncta caccgtggac aacacgaact cgtcgtccg 180
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gcagagggcg ctttcgccg gctcgtgta cgacatctcg acgcacgact acgccgnctt 300
nctctgctcc ctcaactaca gcgccccgca cgtccaagtg atcaccaagg cgtncacgt 360
ctcgtgcggc cccccgaaca 380

<210> 55676

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-013-Q1-K1-F4

<400> 55676

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aagtcacatga cgcgttggac gcttgaatc aacaaagatg gaatcgatga cttcacagtt 180
 caagtggatt cggagaagat agtcctacct ggtgataaga gcgagataga tgggtggcat 240
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 tcgtctagca aaccatctga gagagaagct aaacaagcag cggacgctcc ttgctggtg 360
 aaactaagaa cagatgtgaa tagagtcaca ccgcangtgg caagggtggt ggagaagctg 420
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<210> 55677

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-013-Q1-K1-B3

<400> 55677

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 acgcgcgacc actctaagat ctgcgacctg gctgacaaat gtgtactagc atcttctggc 180
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 gggaaagggt gtgttttcac ctatgatgca gtaggttctt atgagagAAC tggttatagt 420
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<210> 55678

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-013-Q1-K1-B6

<400> 55678

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tctctactgt ttcacctgaa gcagcacctgt tgggtctcgag gagggacaga agacgtggtg 180
catcgcaag ccgtcggcgt cgaacgagat cctggcgag aacctggact acgcgtgctc 240
ccaggtgagc tgcgccgtga tccataatgg cgggccgtgc tactaccgg acagccccga 300
gatccgagcc agtcgcgcc tgaacctata ctacgcctac agaggcaggc acccctggaa 360
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<210> 55679

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-B7

<400> 55679

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cggcaagttc aagcatggc acggccacca cggcaagttc aagcacgggc acggcaagtt 180
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atgtgccctc catggttgat cgtagctgaa ctcaggcttc caggacatgt gttgccagta 300
ataccttttc agcgttactc atccttcac tgtattttcca gtaatccagc ttgtggcgag 360
tgacataatg ctaataagtg acataaataa ccatttgctg atatgctgta tatgttggtc 420
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<210> 55680

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-B8

<400> 55680

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ccttgaacaa ccaaagatcg gcatggtcta cgtttctctt gtcggtgggt acttcacctc 180
attaaaactc attaaaatga ttgacacgcg acagattatt gggttggcaa ctcctttgtg 240

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261

<210> 55681

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-C4

<400> 55681

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gggtcctcaa gctatggatg aactgactga cgaatattct atggatgaac tgattgatta 420
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<210> 55682

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-C5

<400> 55682

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gtgctgatat tggagttgac tttgattcaa tcaatcgcaa ggagaaaagg caggaaaaga 120
aatcaacca agcacctgtg gtgtctacag tcaccatggg caaggccatg ggagctggtt 180
ccggcattgg tcgggctggt gtaggtgcaa tggcacctcc tcctaacca atgggtgccg 240
ggaggggcat gggatgggt cctggtgccg gtgccggtta tgggtggtgga atgggaatga 300
accggccaat gggcatgggg atgggaatga atcaacaaca gatgaggatg gggatgaacc 360
aacaaccgat gggaatgggg atggggatga accaacaacc gatgggagga atgaacatgg 420
tgatggggat gaaccagggg atgccgatgc g 451

<210> 55683
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-C6

<400> 55683

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gggatggcgg cgccgtgctg ggggtggctgc tgacgcacga gtccgtggga ccggcgctgg 120
cggtcgtcgt caccttcggg gtgctggcct tatgcctcaa cttgtccatc ttctacgtca 180
tccactccac gacggcagtc accttcaacg tggccggcaa ccttaagggtg gccgtggcgg 240
tgctggcgtc ctggatgggtg ttccggaacc ccatctgcgt catgaacgca ctccggtgca 300
gcgtcacgct cgtcggatgc accttctacg gctacgtcag gcaccgactc tcgcagaacc 360
aggcgcccag agcccgcttg gagatgcaga tgc 393

<210> 55684
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-D1

<400> 55684

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gcagcagcag tcaggcggcc atggacgcca gcgcagcagg agccggcggg aaggcgaaga 120
agggcgcggc cgggcgcaag gccggcgggc cgaggaagaa gtcggtgacg aggtccgtca 180
aggccggggt gcagttcccc gtcggccgca tcgggcggta tctgaagaag ggccggtacg 240
cgcagcgcgt cggcacgggc gccccgtct acctggccgc cgtcctcgag tacctggccg 300
ccgaagtgtt ggagctggcc ggcaacgctg ccaaagacaa caagaagacc cgcacatcc 360
cgcgccacgt gtcctggcc attcgcaacg acgaggagc 399

<210> 55685
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-G4

<400> 55685

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gcgacatgct ggcgcgcgcc gacgccgacc gcgacggccg tctcagcgtc gaggagtcc 120
tggacgtgat gaacgccggg gagctcggac tgggcgcgct cggggcgggtg ctgcagtcgg 180
cgctccccac gctggaggcc gcgggaggcg cgctggtcgg cgcgacgag ctgccccggg 240
cgctcggcgc cctcggcagc gctagcggcg aggactgcgc ggctattggt gagtgcctgg 300
acggcgacgg cgacggcgcc atcaccattg aggagttcag gtcctggcc gacctgctct 360
aggcttagct nggagctagc ccangctgcg cacgtacgca cgcgtggaac accat 415

<210> 55686
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-H10

<400> 55686

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gggatcgag cgatctgcgc cggcgccctc tctgggatcc cgcgcgacaa agtcaggcgt 120
agaggctcca ggaggaggag ggaggcgag cagggcgggt gggggagatg ttcctctggg 180
actggttcta cggngtgctg gctctcctcg gcctgtggca taaggaggcc aagatcctat 240
gtcttggcct taacaacgcc ggcaagacca cgctgggtcca catgctc 287

<210> 55687
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-H2

<400> 55687

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acgctggaac aatgacctc tctattacaa ctttgtgctg ttacttgtag atggctacgt 120

ctatctcgtc ttatgctatc aaagacatcc tgcttaaatt tgcagactaa ccgtatgctg 180
cacatctagc aaacatgctc aagtatgcac gtcttaccac atttactcag ttactctcca 240
ataaataatg ctattcatga tgccgattac ctgcttatct 280

<210> 55688
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-012-Q1-K1-H3
<400> 55688

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caagtttggc aatagtagcc gggagtatgt tttgctccac gaaaattcaa cagaatgagt 120
tttgagaaaa ttcaacagaa tgaggattga aacaatcagc cttttatgct gtagaagaaa 180
aatacagcaa aaacatgagg ttttgcattg tttaaaattt ttagactgga gattggccgg 240
cttgaacttc tggctctgta tttcttcacg tgttcaagtc tataaggata ttttgtgaac 300
caacatgtag tgctattgta atgaaaagag ctagctgcct gtagcagata gccctggggg 360
attggttgta ttcaagcatg ttttgcaccg cttgcattca catcattcgg ta 412

<210> 55689
<211> 243
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-012-Q1-K1-H6
<400> 55689

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cttgagagct gacacaaagc tcgttgcaga tgtaattctg tctaggcaag atggaggaaa 180
atgacctcac attgcggctg taacatgtgg tctctaactg ggattgaaac cctacttatt 240
ttt 243

<210> 55690
<211> 301

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-012-Q1-K1-H7

 <400> 55690

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 ctgaagagca cgacggagtg gctggagatc gggttcaaca tcaccacat cacgggcggg 120
 ctgcctctcg tcaccatgct catcggcaac atcaaggtgt tcctgaacgc gaccacgtcc 180
 aaaaagcagg ccatgcacac gcggtcgcc ggcgtggagt ggtggatgaa gcgcangaaa 240
 ctgccgcgga gctttcgcgg tcggtgcgcc agttcgagcg ccagcngtgg gccgcacgcg 300
 c 301

<210> 55691
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-H9

 <400> 55691

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 caaatgatag ctgaagatag aagtttggtg ctggaaaaag aatataggaa taatattctg 120
 gatgatttac togaggtaaa atcatttttg actcaacgct taggggagat gaggaatgca 180
 gacacatcat ctctacagca tcaagtcaa gctgtctcac cttttgttct ccagcagcat 240
 gctcctgaca gtttgagaa catgcttgta gagatctcgt cagcaatctc attgctaact 300
 aatcagaaga ctcttgacct tataatgatc cttaactcta aaggtttctg gatagattag 360
 tttcaagctt agaagagaag atgcatcacg aagtaaactc cg 402

<210> 55692
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-013-Q1-K1-A1

 <400> 55692

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 tggatatggtg aagatgatac caaccaagcc catggtggtg gagacattct cagcgtatcc 120
 tccccctcggg aggtttgctg tccgtgacat gaggcagacg gttgctgttg gagttatcaa 180
 gagtgtggag aagaaggacc cgaccggcgc caaggtgacc aaggcggctg ccaagaagaa 240
 atgatgcgat cctgcgcctg ctttagcaat acctagtttt catcatcaca agttttgttt 300
 gtgatcggtg ctgttatcgt gtgaactggt gagatctggt agcatgtgca cttttatcta 360
 tntatttggg accatcttgc ttttt 385

<210> 55693
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-A2
 <400> 55693

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 gccgaggaag aagtcggtga cgagggtccgt caaggccggg ctgcagttcc ccgtcggccg 180
 catcggggcg tatctgaaga agggccggtg cgcgcagcgc gtcggcacgg gcgccccctg 240
 ctacctggcc gccgtcctcg agtacctggc cgccgaggtg ctggagctgg ccggcaacgc 300
 tgccaaggac aacaagaaga cccgcatcat cccgcgccac gtgctcctgg ccatccgcaa 360
 cgacgaggag ctcggaagc tgctgtccgg cgtcaccatc gccacggcg gcgtccttcc 420
 caacatcaac ccggtgc 437

<210> 55694
 <211> 210
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-A7
 <400> 55694

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 accacttttc cgatacaaat gtaatcttgt aaaaatgaga aaaaatttaa aaaataaaaa 120

aaataaaaaa aatataatat taataaaata aaattataaa aaattataat aattatatatt 180
aattaatttt aataataata ttatttttat 210

<210> 55695
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-013-Q1-K1-A8
<400> 55695

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gaccccgccg ggtgcaggag gacccgaag caccggcacg cggccgggggt gtgccctttc 180
tgcctacgag accgcctgtc gcgcctctcg gccgcgcgcg cgtccgcgtc cgcgtcgtcc 240
tcgtcatcgt ccccggtgctc gtcgtgggag gacgcgtag cgcggtcgtc ggcccaggcg 300
ccgcggcccc gccgcggaag cctcgcgctg ctgctgcggc aggaagggag ggaggcgccg 360
tctgcggcgg cggcgctgcc cgcgggcagc cgagcggagc aggaggagag gaaagccaaa 420
aggggcagct tctgggagag gcttcaacag cagc 454

<210> 55696
<211> 401
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-012-Q1-K1-D9
<400> 55696

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gggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aatatggccc 180
ctcttttttaa gggccaatt ttttttttcc cttattttat attttaactt ttttttattg 240
tttccctaaa ataaatttta ttgccattt tttaaaacct ttttattgta aaaacccttt 300
tttttcccaa ttataatggt ttttgtcaaa tatccttttt tcttaaattt gttatatattt 360
taaaaattct cctcacctt tttccccttt tataaaaatt t 401

<210> 55697
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-E12

<400> 55697

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 tgggcaagaa taggccgggc tgtaaaccgc tacatttacc gctatgcgcc attcctgaac 120
 acacctatctt cggcagtcga gagatggtgg ctgaggtagg aaagcatgga ccgcagcaca 180
 gtgaaaatat gcctaaacag ctactctgat ctacgcgcct cgatctttta gaaggcgtgc 240
 ttgcacggcg tgttcttttc ttgtaaaggc tgtattctca gttcatgtct tactgagcta 300
 ctgaaggcat aacactagag aatttcttaa aaaaaaaaaa aattatat 348

<210> 55698
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-E2

<400> 55698

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 tgggtgctagt caaattggca tgggtgtaac tgcttaccct ggtgtttatg gggctccaca 180
 gctcaccag atacctatag caggaggaca aagggtcatg atgccagaga ttatcgtacc 240
 aaacaacatc ttgtttgtcc aaaacttgcc acacgagacg acgcccata tgctccagat 300
 gctcttctgc cagtaccctg gcttcaagga gggttcggatg atcgaggcga agcctgggat 360
 tgctttcgtg gagtat 376

<210> 55699
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-E3

<400> 55699

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agaaaaaata aaaaaagaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggggcccc tttttaaaga 180
tccaattttt atttcccctt ttttccaact taaaactttt ttattagggc ccctaaaatt 240
aatttaattg ccctcttttt aaaaatcttt tacttggaag aaccttgggt ttccaattt 300
aatccctttt taaaaaaatc tccttttctc cagtttctta aatacaaaa agccccttac 360
catacgcttt ttaaaaaatt ttcccacctt aattgtcaaa ttgaaccccc ctttt 415

<210> 55700

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-012-Q1-K1-E4

<400> 55700

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aatcatgccg ctaaccaaag aggttcaaag cgcgatattg cttaggaggc tggattgatt 120
gtgtttatgt agatgtaaat tgccagatca gaactcctgg cggttaagcca gaacattgggt 180
aaataccggt tttggtgtca ggatgcaaaa tgtaccatgt gtggaattgt gccaacaaac 240
aagcataata tcatgtggag ttgtcgcgta gtcgcacctc gtgcgtactg ncaatggac 299

<210> 55701

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-012-Q1-K1-E6

<400> 55701

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ccgcgccggc cgttcgtcag cctgttcccg cggatgcagc ccgtcgcgct ggacctcatc 120
gagcggatgc tcaccttcaa cccgctgcag aggatcacag tggaagaggc gctggagcac 180

ccgtacctgg aacggctaca cgacgtcgcc gacgagccca tctgcacgga cccgttctcg 240
 ttcgacttcg agcagcaggc tctgacggaa gaccaaata agcagctgat attcaacgag 300
 gccatcgaac tcaaccccaa ctcccgatac tagctagcta gctagtccgg acacacatct 360
 taattatacg tatgtatgat tctcgtacg tgggttggtta aatagaagat cgagccggtc 420
 gncggtgtta ttagactgaa cggatgcattt gtttggtccg 460

<210> 55702

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-E7

<400> 55702

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 tctctccgac cccaaccat ggatgaggcg caagttgtgg agtcaaagga tggaaccatc 180
 tcggttgctt ctgcatttgc tggttatcag gaagctgtgc aagacagga tcacaaattc 240
 ttgacaaaag cagtggaaga agcatatcga ggagtcgatt gcggtgacgg aggtccattt 300
 ggagcagttg tcgtctgtaa tgacgaagta gtagtcagct gccataacat ggttctgaag 360
 cacactgacc ctactgcgca tgctgaagta actgcaatta gagaggcttg caaaaagctt 420
 gggaaa 426

<210> 55703

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-F6

<400> 55703

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 agcttgattc caagaggacc aagcttacct cggagactgc caaggtcaag gctgccggca 180
 aggcgtggta caagaccatg gtctcggaca gtgactacac cgagtttgag aacttcacca 240

agtggtcgg agtgacgcaa tgaagcggcc tttgaagcct agttaagttt tgagtagatg 300
 tgtcgctgaa cttgtattga ga 322

<210> 55704
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-012-Q1-K1-G10
 <400> 55704

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 aagttcaagg atggctacat gatctcatct ggtcagccag tgaatgagta catcgactca 120
 gctgtgagac acgtcctcct cagacaggggt gttctgggta tcaaggtgaa gatcatgctt 180
 gactgggacc cgaagggcaa gggtggcccg atcacccctc ttccggacct ggtgaccatc 240
 cataccccga aggaggagga cgagctgcgc cctcctgtct tggcagctga tgtctaaggt 300
 cccaacagcg tcctcgaaat ggcagtttga tcttgtccta gctagggggt gtatctatga 360
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<210> 55705
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-012-Q1-K1-G11
 <400> 55705

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 gaagctagag gaaatcgaca tgcttcagga ggtcacgaag caaatcgaag ggcatactat 180
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 ggagttggag aggaggatcc gcgagcgagc tgaaagggag ctgatggcgg cttctgcatg 300
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 ggagct 366

<210> 55706
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-B6

<400> 55706

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gtgccagcgg ggcgcccgcc gccgtcggcg aggtccccgc ccgtgaccct gctgttcaat 120
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cgcctttggg atcgggcgcct gtcaagtgcg acgtcgncag cgagcg 346

<210> 55707
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-B7

<400> 55707

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caaccgtcac catcaccaaa ccgatgggaa aaagcaggca aattcagaac agcaggccca 180
aattctagga aacggtttgc tgcgatatcg caatttcaac tccagagctc atatgtcctc 240
tgaagaaagc gctcctttg tacaaaagga gtagcacacc gtactcattt ttttttttgg 300
caaaagagag acgtgccaat tgtaacgtaa aaggcgttac caattgttgt aacaaacgat 360
ttctttgatt aaaagaaaaa gggtttgttt ct 392

<210> 55708
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C1

<400> 55708

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catccgcctt cttatctatt ccatactacc tccctaaatc attcacacta actccctttt 180
ttacaacttt ctccactcta aaatccattg ccttaccat tttaatcacc ttccatcaaa 240
accccttttc tccaccatcc ctaattacct aacagccctt ccccatgtgc ccttcctaata 300
attt 304

<210> 55709

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C3

<400> 55709

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ggcaacgccc cgtggggcgt ccgcggcacg gacaccgtcg tctcggcgt cgagaagaag 180
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gtcgagtgcc agagccaccg actcaccgtc gaggaccccg tcaccgtcga gtacatcacc 360
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<210> 55710

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C4

<400> 55710

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aagcgcctcg tccagtcccc caactccttc ttcattgatg tcaagtgccg gggatgcttc 120
agcataacca cggttttcag cactcccag actgttggtg tgtgcccagg ctgccaaact 180

gttctctgcc agcccacggg aggaaaggcg aagctcacgg aaggatgctc ttttcgcgg 240
aaggagac 249

<210> 55711
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C5

<400> 55711

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tcagcggcgg gaacgatgag gaaaagggtta ttgtctttga acgtggagat ttagtttttg 120
ttttcaattt ccatcccaag aaaacttacg agggctacaa agtgggatgc gatttgcctg 180
ggaaatacag agtagccctg gactctgatg ctctgggtctt cgggtggacat ggaagagttg 240
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ttaacaac 308

<210> 55712
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C8

<400> 55712

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cccagccgca agccgaagcc ggcgccgccg ggcgggacaa ggcagaggcc gaggccgagg 180
acaaggagga gtgacgggtg tagtcagggg ggaacgggaa cggctggagt tgtttgcgtc 240
tcgcgttctt ttcacctgta cgcaggaaat actcctctct cataagacta ctgtactttt 300
ggataaaaaa ttttatttct acatgactat cacgtagatg taaaaaaaaa aagttgcaat 360
tcgcgacttt tgccccagcc tcaaattcct aaaatagcac tgttttatttt ggtacctatg 420

<210> 55713
<211> 349

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-D6

 <400> 55713

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 tactgcaa at ggtaggaggc ggagaagtcc aaatgaacag cttcagcatg gacagaacaa 180
 catgagaaaa ctgacatttt caacactcac gacacctgat tatatcgctc cataggttat 240
 acttaagaca ggatatcgac tagagtgaga ctgggtggaca ttaggtgcaa tcatgtatga 300
 aatgcttgct ggttatccac cattgtattc agatgatcca ctagttaca 349

<210> 55714
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-H4

 <400> 55714

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 cactgccaag gaccatgcct ctgtccagat caacattggc cacttggatg cgaatggcct 180
 gtatgatggt cacttcacaa catttgctct ctctggggtt gtccgtgctc agggcgatgc 240
 agacagctcc ttggacaggc tgtggcagaa gaagaaggct gatatcaagc agtagatttt 300
 acatctagtt taccaagaat tggacactgc cttagctatg ttttgaattc atgtcactat 360
 atgcaatggt gtgatttcag ctgggtacctt aaatctgaag atttagtatc tttggtgggt 420
 tccttc 426

<210> 55715
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-H7

 <400> 55715

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 gtcgtcgctc gagatcagac tagttataca cgcaatgttc aagttttttt cttttaaaga 180
 atggtacaaa atatctgcct gtagaagaag ctaaactgcc gaatgtggat catctgtaag 240
 tgcttttgga tgggcatggt ttgatgggtgc cctgccaatg tatctccaat tctttttggt 300
 ggatgaagag aggcggtgaa gctgctagta tggggcgggg cacctgcaca aagcctcatt 360
 tgtaattcat accaggttac cttttctgta gctagattat tctt 404

<210> 55716

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-A10

<400> 55716

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 gttggcttcc ttgaaattta accggcttgc ctttatgggtg gaaggctttg ggcctggtt 180
 aaaaaaaaaa aataaaaaaaaa gggcgggccc ttttaaaggt cccaggttac cgaccctgc 240
 ctt 243

<210> 55717

<211> 317

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-012-Q1-K1-A2

<400> 55717

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 cgtctggacc gtaagattga gttccctcat ccatcagagg aagcaagagc tagaatcctg 180
 cagatccact cgaggaaaat gaatgtgaat ccagatgtca actttgaaga gttggcgcggt 240

tcaaccgatg atttcaatgg cgctcagcta aaagcttggt gcgtaaaggc tggcatgctc 300
gctctacgcc gagatgc 317

<210> 55718
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-A5

<400> 55718

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gagggcggta aaggagggat ttgcattttc tcattgtact acctgcaagg ctccatatta 120
cttgaggggtt cattcgcaca ctgacaggaa atggcgaaca ctgaagtttc gtttctttgt 180
tactagagat atattattca tctttgctct agtccagatt atcatctctg cattggcata 240
tttggtacat ttattgatg ggtgccaaaca atattggttg aagacagcct gngcttttga 300
taatgaagtt agtttttatt atatctgtgg tgcattaaat gtttttgctt tgntgggact 360
atcgggatgc ttca 374

<210> 55719
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-A6

<400> 55719

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atttcacaca cagccgacct ttgttttaggc tggattaaca ggaaggcagg agactcatac 120
tgcatgtcat gccatcacct caacttcac cgtcgataca tatgccagct ctctaccgat 180
ccacgttgaa ttccttatct ttgcat 206

<210> 55720
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-A7

<400> 55720

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gagcaacggt gcaggaaaca aggctttcgc tgcctgaac aaggcctctc tcgtgcctat 120
aaagtccccg gggctgtgtg gcatggatag atcgtcaagc gcagccgacg agcagcagcc 180
gcttggtccca ccggatcaac tggagcaggt ttaggtattc tctgtcgcca cgacctctgc 240
actttcctag aagggttgg acagcgccga cggaacaaaa aaaaatcgtc ctctgccgga 300
ttattaggcg cctgcatctg catocattgg tcccgagaac tggactttgc 350

<210> 55721

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-H2

<400> 55721

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tgatacagtt cggcgccaca aagtcaacat tgatggcaac atatgtactg taatggttac 120
catttttggtc cttgaggggt ggcaacgcaa gctggacca ggctttgata tcatgcaaac 180
gttgaagact ttactgctag agaaggacat aaagcaacca attgattttt tctcataaac 240
aaacctgtca gatcgttctt atgtatagaa gcagtgggaag atgatgccct accaatataa 300
tcagaaggcg aaacatctaa tctaactcga agcaacctga cattaattga gcagatatat 360
tatgcactat gttctatctg tcctttctga tagtagaagt agcagaaact gtctgcactg 420
agtttcattt tttactacgt c 441

<210> 55722

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-E6

<400> 55722

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aaggggactc tggccagctc tgactgccga ctgtcgtcta caagaatggc atggtctagt 120

ccatccacga tgcttgtgtt ctgatcaagc ctggtcgtat caaggtggca aggcatactg 180
gtggacatat cctatcgcat ggtcacggtc gatatagatt accacatcga attttgcctc 240
aacagcgatt tctgt 255

<210> 55723
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-E7

<400> 55723

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gtgttgctta tgcgatggcc attacctgcc tgggactgag tgcagatgca aagtttgtaa 120
tggaagaaac agcagaaaca cactttgtat caacatctct tgcgaaaaat gtgtccatca 180
aaactaaaac tgacatagca cttaagcagg gtgactaccg tgacatatta aaccttacta 240
gagtgttggc acatgggccc aagagcaaag aagaggttga cacagttatt gacaggtggt 300
ctggtgctgg tcatctgcgc gaagatatta tgcattacag gaaagcactg caagattggt 360
cacatgacga cgacgacgac tgtgatgagg aacactctta tctcactgat atgggcacaa 420
aagctttgag gcgttacttt tt 442

<210> 55724
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-E8

<400> 55724

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ttgatgcggt ggtcatggag atgggtggctg tctactgcgg tggcctctat gccgccaagc 120
cagagcttgc tgcccgccgc attgaggcca tgggctttca ggttgggcac cagctctctg 180
agagatatac catggagcgt ccacgattta gtgatcatct tgaagcaatc aaatttatct 240
gcaaagactt ctggtcagag ctgttcaaga aacagattga caatctgaaa acaaatcata 300
ggggtacctt tgtccttcaa gataaccgtt ttcggtggct tactcgtgtt tctctagatc 360

catatacaga gaacagagat tcaactgaaa atgattctgc agcattgggt gatacagcag 420
cccaaacaac taccatgctt ctgtatttcc ca 452

<210> 55725
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-F1

<400> 55725

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gacatggagc ttggacaaga gcttcgaagg aactcccaag gttgtcaagc cagaaagaaa 120
cgttgggaat gagaatgcta ctaaagtctc aagcgccttt gctggcacca gagagaaatg 180
tgttggatgc agcaagacag tctatccaac tgagagggtc actgttaata acactatgta 240
ccacaagagc tgtttcaagt gctgccatgg aggggtgcacc atcagccctt ctaactacat 300
tgcgcacgag gggaagctgt actgcaagca ccaccacatt cagctgatca aggagaaaagg 360
gaacttttagc cagcttgaga atgaccacga gaagaca 397

<210> 55726
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-F2

<400> 55726

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ggacatagca gtagtgacga gatgctcagt gcaagtagta gagcagacga tagtagcagc 120
agggacgcta gatccctttt gaatggtgag gatggttaca aatctcggag tgcagtatct 180
ttgccagca accaagttca ggctgagtgg attgagcagt atgaaccagg tgtatacata 240
aactgacaa ctcttcgtga tgggacccga gatctaaagc gtgtacgctt cagtcgaaag 300
cgttttgggg agcatcaggc ggagagctgg tggaacgaga accgagacaa ggtctatgag 360
aagtataatg taaggagctc cgaacgagtc tcgtcggcat catcgatccg gtcaggtcga 420

<210> 55727
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-F3

 <400> 55727

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 tccgcaatgt tattgtgatg atgacgaaaa ggggtatggt caatgcaata atatgatggt 120
 cgactggaat ttcaattacc gccctacaat gagtgcctcg tgggcttcta agatgtcaaa 180
 tccacttctg ccatacacat tatcttacag ctttacttgc gacctggcac atgatttttg 240
 gttcctggta cttttgctgt ggtatatcat atatgttgac taaatggctg tagaacgtag 300
 catgattgca tactgcgaag tctgttaaaa aacttgggtg ttctgccaga gcaactcaca 360
 tgcaattgtg aaaatggaga acaaggaaaa tttatttggc tt 402

<210> 55728
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-F4

 <400> 55728

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 ctgaacgcgt tgcattgtct gtccagtact ggaactggaa gcagcagctg aaactgctga 120
 caacgacatg gcagtgcagc acagtgcggc tgttggggcg aaaatgcttt gattattcct 180
 gcagcacatt ctactttga 199

<210> 55729
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-F5

 <400> 55729

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aatatactgc tggacaagga catggtgcc aatatttcag attttggcat tgcaaagctc 180
 ttggagcagc cttctactgc tcctcagacc actggtgtcg ttggcaccat tggatatatg 240
 gccccagagt tagcgttcta caccaagagc agcatggagt ccgacgtgta cagctacggc 300
 gtggtgctgc tggagctgct cagcaggagg gcggcggtag atccctcggt ttccgacggc 360
 acggacatag tcagctgggc gtgatcgcc ctgaacg 397

<210> 55730

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-F7

<400> 55730

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 ggaggaagcg gcagcgcgcc ctgccgagac agaagcagaa ccggcagccg ctgagcccgga 180
 ggctgctgct gctgctgagg agcccgcggc ggctgagccg gccgctgagg agcccagaaa 240
 ggccgagccg gccgctgagg tggccgagaa ggccagcgag tgaagccgtg cgccgtacgc 300
 gcaactggggc agcggacagc gggtcgggag atcgatgtct tagcgtgcgc gcgtggcggtg 360
 ccagtctcgt tgcgcgcgct tgcgcctact ggtcaataca 400

<210> 55731

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-G1

<400> 55731

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 gcatcgacaa tttaaagctg aagtctggac ggtttccatg cttttggggg cggatttcct 120
 ttgttgccc ttaccatt tgtcaaatgt ggtagcgggtg gttgggggga gtggggaatg 180
 aagtgagaag gctatgttta taactgtgaa ccgacgggtg cagctataca tatcgtcagt 240
 cctgtgtact caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggggggcc 400

<210> 55732
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-G3
 <400> 55732

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 atgaactaaa tgatgtcaca gccgctagtg gtgttaatat tagggaagag gaagaacagt 180
 tactgtctgc ccctaataaa gagagccttg cctcacaaga agcacgaaga attgcaaagg 240
 aagaagaata aaatcttttc ctacgtaagg gtccactttt gaggaaacta gcataaatcg 300
 ctctgaaatg tgatctgaaa aatattattg acgatttggg aacttgaatt ttaatgagtg 360
 ttttag 365

<210> 55733
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-G4
 <400> 55733

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 aataccaaag taagctgctt gaaaatttga cgctagtga atgtcagaat tccttgggtg 180
 cacttgtact tctcctgaat acggagggtg ccttaaggct gaaaaggac aatgatgcga 240
 gggagtggca catcaactgc tgagtctggc tcaaaagaag ttgatgatgc tgtctccgta 300
 caagctctca gaagttacac atcacatcct aagttgacct gagttcgtga agaggcttgt 360
 gatgctacat gaaagagaga gcaaccacta aaggcaccat tcgatcccca agtttaagct 420
 cttcaaggtg aggtctgttc aatttggcta gaaaggc 457

<210> 55734
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-G5

 <400> 55734

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 ccttaacca atgcgcaaaa ttggccgcag ggcgttgctc ggagtggcga acgaatcgac 180
 aacgagctcg ccatcactgt gaaccgaact ctgactctct acgtagtcgc ctgcctgagc 240
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<210> 55735
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-G7

 <400> 55735

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 gacgcgctca cctacaccga gcacgcgcgc cgcaagaccg tcaccgccat ggatgtcgtc 180
 tacgcgctca agcgccaggg ccgtaccctc tacggcttca gaggctaggc gcctgttctt 240
 agctgggga 249

<210> 55736
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-G8

<400> 55736

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ggaacacata ccaaagtaag ctgcttgaaa atttgacgct agtgaaatgt cagaattcct 180
tggtggcact tgtacttatc ctgaatacgg aagttgcctt aaggctgaaa agggacaatg 240
atgcgaggga gtggcacatc aactgctgtg tctggcataa aagaagggtga ttatgctgtc 300
tacgtacaag ctctcacaag ctacacatta catcctaagt tgacccg 347

<210> 55737

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-B6

<400> 55737

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<210> 55738

<211> 202

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-011-Q1-K1-B7

<400> 55738

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aggaccacga tctgtacact cgcgatggcc ttgatcgccg accgtagagt gaggaaccgg 120
atcacttcca ccgaggtcac ctatgaccta gttgatctca tcttgtgcat gacgaagggc 180
aagcccatcg acgtgaccca cg 202

<210> 55739

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-B8

<400> 55739

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gcatgtctg gccgcggcaa gggcggaag ggtctggca agggcggcg caagcgccac 120

cgcaagggtc tgcgtgacaa catccagggc atcaccaagc cggcgatccg caggttggcg 180

aggagggcg gctcaagcg catctccggg ctcatctacg aggagaccg cggcgtgctc 240

aagatcttcc ttgagaacgt catccgcgac gccgtcacct acaccgagca cggccgcccgc 300

aagactgtga ccgcatgga cgttgtctac gctctcaagc gccagggccg caccctctac 360

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t 421

<210> 55740

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-C2

<400> 55740

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ggcattt 67

<210> 55741

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-C3

<400> 55741

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ccaaggctgg gctccagttc cccgtcggcc gcatcgcgcg gtacctcaag gccggcaagt 120

acgggagcg cgtatgcgcc ggggctcccg tgtacctctc cgccgtcctc gagtacctcg 180

cggccgaggt gctggagctg gccgggaacg ctgctcggga caacaagaag aaccggatcg 240

tgccgcgcca cattcagctg gcggtgcgga acgactagga gctgagcaag cttctgggca 300

ctgtgacgat cgcggccggc tgcgtgatgc ctaacattca caaaatttg ctgtctaaga 360

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<210> 55742

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-011-Q1-K1-C4

<400> 55742

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ccctgtatgt tccgcatcag gtatcacaag gaattccgat aatatgaaac ctccaaagct 120
ggagtccaag tgcaactgta taatcatgta agtaacttca cgtccaaggt cgaaggagtt 180
gtgatattgg ttgggacgaa aatccatgct ttctggtttc atgtcacatg caacttgaag 240
catgcctacc tgcttggtta acccgctgtc agcagcaacg atggagttca aggcagtgga 300
tcttccacta gattattttg cagaagtgca tttgctgtgt tttttagggtg acagaatgca 360
ctgcgagcta ttctttngta aagtcttttc ttctctgtgt tggaaatddd ctgcttgtcg 420
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<210> 55743

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-C5

<400> 55743

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gtggtcaagg tcgctgactg cggacagctc tcttagatct ctctgatctg gtctgttcgg 120
ccgccctccc tccgtcatcg tcgactcccc ctgcgtccgt tcttttgat ctgaataaga 180
tggtggtgat ctgagtgggt gtcttagttt atcatgtatc gctcgcagtt taatttagcg 240
gtttagggtgt ggatctgtga accccatggc gcctttgctt gattcgtgtt tcacctgtta 300
tgttctgaga ttcatgataa tgcta 325

<210> 55744

<211> 298

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-C6

<400> 55744

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 cacactgaca cgttcatagc tagctagtct tcagctagta acttacgacg ggataatctc 120
 gatctgggag cgaggaggag gacgacgaca atgaagatga gctccgtgcc agcggcagcg 180
 gcggtgatgg tgggtggtgg gctgctgcta tctgcagcag cgacgactga gactgggcat 240
 gcgcttgtgc cagccgtgat gatcttcggc gactcagttg atgacgccgg ctactaca 298

<210> 55745
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-C8

<400> 55745

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 cacagcgttc atggacagcg tcgttgaggt ctacaatggc tcgtccttcg acccagtcga 120
 gatcatgctt gtgatcattg accgctagct tgcaatgtca tctatactgt actagtcgat 180
 cttgcacgat acgcccagat ttggagccac atagtagtcg catgtgatgc ttgtgtaatg 240
 atatgatacc gagatctgta tctatatatg ggggtccaca ggcattgcga catgaggata 300
 gctgctagac acga 314

<210> 55746
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-D1

<400> 55746

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 agtcggcccc tgcgaccggc ggcgtgaaga agccgcaccg cttccgcccg ggcaccgtgg 120
 cgctgcgcga gatccgcaag taccagaaga gcacggagct tctcatccgc aagctgccct 180

ttcagcgcct ggtccgcgag atcgcgcagg acttcaagac cgaccttcgc tttcagtcct 240
 tcggcgctgc cgcgctgcaa gaggccgccg aggcctacct cgtcggcctg ttcgaggaca 300
 ccaacctctg cgccattcac gccaaagcgcg ttaccattat gcccaggac attcaacttg 360
 gccggc 366

<210> 55747
 <211> 485
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-D2
 <400> 55747

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 gaaaaaattg aaaaaattaa aagaaaatta atactacata tttatataaa ttatacttta 120
 aaatctcttt aattataatt tatagttatt attaaatata ttattttaat aaaattcata 180
 ttgttataaa attaaaatat tttttggagg ttatacttct gtcgttaatt atcttattct 240
 cttattgttc tatttctatt ttgctatttg actttttatt ctttcttttt tgtaaatttt 300
 ttatcttctt tttaatttgt attacttatac tggctaattt aattgttact tttattgatt 360
 cttttacatt tttttatttt ttttttttaa ttttatattt ttactttttt tattttccta 420
 ttttactata ttttattttt tatatttttt attatttttc tataatctttt tatatatattct 480
 ttttt 485

<210> 55748
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-D4
 <400> 55748

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 gcagtatgcc ctgcctttgc tgtgtgatat ggctcatgct tctcgcaact cttagagagca 120
 gttgaggggt catggaggac tagatgtgta cttaaactctg ctggaggatg atgcatgggc 180
 atgcacggca ttagattcta ttgctgtttg tttggctcat gataatgatc acagaaaagt 240

ggaacaagca ctgttgaaaa aagaggccat tcagaaatta gtgaagttct tccaagattg 300
cccagaacag tattttggcc atatattgga cgctttcttg aagataatca cgaaatcttc 360
taggctaaat acagcaatgg ctaccaatgg tttacaaca ttgctcattg caagacttga 420
ccaatcagaa gctattgccc gcttgac 447

<210> 55749
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-011-Q1-K1-D7
<400> 55749

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caacagtga gagattctgg gacctcgtag gtcaaatggt tgaccctttg agaccaggag 120
acttcaacca agcgatgatg gagttaggag caacattatg tagcaagaca aagcctgggt 180
gctctcaatg ccagtcctct agccactgcc aagcgcttgc gctttcccgt gaaaaatcat 240
cggttcaagt tacagacttc ccacgagtgg ttccaaaggc caaacctcgg agtgatttcg 300
ctgctgtttg tgtggttcag attgcacaag gcttgaaga agaagcggca gacccaaagg 360
gaaatgacca tctctttttg ctgatcaaga gaccagaaga gggcctgctt gcatggctct 420
gggagttccc actggtcctt gt 442

<210> 55750
<211> 192
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-011-Q1-K1-D8
<400> 55750

aaaaaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaag 60
agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aataaaataa aaaaaaaaaa aacaaataaa aagaagtaaa aaaaggataa tggaagacaa 180
catcaaataa aa 192

<210> 55751
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-E2

<400> 55751

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 gacactgagg acctatcagg accgattggt tcgcaccgga ggttttgatc tatttgcccc 120
 ttgaatcctc tgttcaatgt gatactgctg tcagctgttt gtcttggtta ctgttggtact 180
 tatcaaattg atgttttagt cgattcgagt ctacaagatt gaactttggt gctacagtga 240
 gtaccgacca gtggcctttt tgttggtggt gagaaacagc cctcaacctt tagcagagaa 300
 agggactaaa catgtcttcc aacataaaaa ctaagggcct gtttggtttt gttttttggt 360
 aagcctgttt ctttaggttt aatttggtacc gacttctact ggttctactg tgtccccagg 420
 atttcaagct 430

<210> 55752
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-B5

<400> 55752

aacaatgtga agctcgagtt gcctgcttga gcatgcttcg ttttgccaga aagcgtgcaa 60
 gctacgtgac tcaagttttc tagaatttag ctgcttatat ggatcatggaa agacttggtt 120
 atgacgtgaa cagggtgcagc tgatgccaaa cccttgatct tgtctgcgaa aatcggcatg 180
 gccaaagacca ttcgatttca aagctaacag atgctgctgc acagaaattg ggtcgtccct 240
 ttttgtagct ctatactttc gatatggaaa atcatatata gctcagttag tctgtctaac 300
 attcgagttc aattgctcca atacaaaaat gcgatccaat 340

<210> 55753
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-E3

<400> 55753

agcaaacttc aacaaggaca atgagggtcat ataacaatat attggcaatg acacagtcgg 60
ggcattcaaa atcccccttta tttatcggtg ataagaaaat cactctgtca tggatggagc 120
agcccaacaa agcagcagct acgaaagcag gggggaagag gtcacaacct agtacaaatg 180
ggaatgacct tgcaacaag aaggggagag gaggactgca aaaccagcta gcgaacagag 240
ctcttgaagg actgtctcat gttggaagaa gcatgtgacg aggtttttgc atgagtagcc 300
tacgtggttt tttt 314

<210> 55754

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-E4

<400> 55754

cggacgcgtg ggcgacgcg tgggctcgta acataattgc ccggccctg ttctagttgt 60
ggcgagctct ggtttgtttt gacatttggt ttcaaggctc atccttattt gcattgc 117

<210> 55755

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-H10

<400> 55755

catgggagca cgcatacgcc gccctaggcc aggtgaccag cttttggccg ggcccagggg 60
tggcgacgag aatccaatag tgaagctttc tatgtgttgg cagataaact gagcagtgag 120
gggtcttgac ggtagcagag taggtcctgg ctgtgttggg aggtaaacta aacagtgagg 180
ggctctgacg tctgcaaaga gactgagaa aaggcacatg aggggcagta agaggacagc 240
aagtcctact gttgttggaa aataaattga gcaagtgtg gtggcggcta tagaaaaagg 300
cacgaggggt 310

<210> 55756

<211> 177

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-H11

<400> 55756

caccactcca cagcactatc aagagtgtat agaacanagc atacagcacc gccacacggt 60
 tgtttatttt atgatgagtg aggtacaaac ctacctatta ctatatatgc ttccaaaaga 120
 cagctcttat cttcactgat atactaagta ttattttata aattatattg acttcct 177

<210> 55757
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-H12

<400> 55757

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 gcctgttcgt cagtgcgaat ttgatgtgaa gaaatccgc aaaatgacgc ctccattccg 120
 cgtcatcctt cacaatgaca accacaacag gcgtgagtat gttgtccagg tcctgatgaa 180
 agtgatccct gggatgaccg tccacaaccc gttgaacatc atgcatgaag cgcagtgtgaa 240
 tcggttgatca gtgggtgattg tctgttccca gtcctaggct taagagcact tcacgttact 300
 taagggc 307

<210> 55758
 <211> 121
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-H2

<400> 55758

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 aaacgtccct gcacngtaca ataattctcc acttccaaga ctgctaataca tggccattcc 120
 a 121

<210> 55759
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-H4

 <400> 55759

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 ggatgaactt ctataacact tcacaatctg atagtcactt gctatccatt gaaatcgctc 120
 tacaagggtc ctctctgata gtcacttgct atccattgaa atggctctat aaggctcctc 180
 tcttggtggc ctctgttttc ttgggttatgg tagtaccaac ctagttggag gtgcggtaca 240
 gtttcccaaa aacatggagc atagcgacaa cagctatgaa cccaatgctc atgatcagaa 300
 aagtgtttgg tgacattttg cggcccgag cctcatcggt gtagaactgg agcatcgag 359

<210> 55760
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-H5

 <400> 55760

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 gttgtcggga ggaacttcta taacacttga caatctgata gtcacttgct atccattgaa 120
 atcgctctac aagggttctc tctgatagtc acttgctatc cattgaaatg gctctataag 180
 gtcctctctt tgggtggcctc tgttttcttg gttatggtag taccaacctt gttggaggtg 240
 cgggtacagtt tcccaaaaac atggagcata acgacaacag ctatgaaccc aatgctcatg 300
 atcagaaaag tgtttggtga cattt 325

<210> 55761
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-H9

 <400> 55761

aaaaaaaaaa aaaaaaaaaa aaaaataaat taaaaaaaaa aaaaaaaaaa aaaaaaggaa 60
 agaaaaaaaaa aaaaaaaaaa gaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggg 120
 gcgccccctt taaaggatcc aagtttactt ccccttcctt ccaacgtaat aattttttta 180
 tagtgccacc taaattaaat taactgcccc cgttttaaca acgtcttgac tggaaaaacc 240
 ctggctttac ccaactaaat ccccttgcaa aacatcccct tttccccagt tggcttaaaa 300
 acaaaaaggc cgcaccaat ccccttcca aacattttcc cacccttaat ggcaaatgga 360
 accccc 366

<210> 55762
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-011-Q1-K1-A1
 <400> 55762

atttttggta tatacacatg cttttactag tagaggagta tttattttca tttgtagcag 60
 ccaaggaact tgtgcattcc ttatgaatca tgagaagacc atgaagatgc acacaaat 120
 gcttgacttc tgaccagtaa taattagcga aagaaagaaa atccagaacc atgaatcagc 180
 ttgatagcag taacaaat 240
 caggggccag actaataaat cagcttgata gcacccctgc agcgggtgcct tggactttgg 300
 cggttagaag aggtttataa ttntatatga tgaaattatg tgcattctca gttgtttttg 360
 cctcactgct ctttgcggt ctggataaac tcgaagctga cctatccaag ttcgacga 418

<210> 55763
 <211> 252
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-A2
 <400> 55763

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 ctgcagtcatt tttgtctgag gcgcttaagg aggccctgac attcaggacc gaagccttct 120
 gatgtacca tctagcccta gagatcagac tatttataca cgcaatgttc aagttctttt 180

cttttaaaaa attgtccaaa atatgtgact gtacaataag ctaaaatcgc actatgtgga 240
ctatatatta gt 252

<210> 55764
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-A5

<400> 55764

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ataagtgagg tgcgtgtcga aggactggaa actatggact accttgacaa cttaaaggca 120
taggaacgtt tcacagagca aggcaatact aatggttttg aatcagaagt tgacatagtt 180
taccttgctg caccctccaa aattgctatc attgatcatg agaagaaaag aacatttgctc 240
gtgacataag aagggcttcc tgatgcttgt gtttggaaacc cttgttaciaa gaaggcaaaa 300
gctatgcaag attttggg 318

<210> 55765
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-A6

<400> 55765

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gtggatctga cataagttag gtgcgtgtcg aaggactgta aactattgac taccttgaca 120
actcataggc aaaggaactt ttcacagagc atggcaatgc tattgtcttt gaatcataag 180
ttgacaaaagt ttacctagct gcactcttca aaattgctat catcgatcat gatacgaaaa 240
gaacatttgt cgtgacaaac gaagggcttc ctgatgctgt tgtttggaaac ccttgggaca 300
agaacgcaga agcaatgcat gatttcgtgg atgcacaata cattagcatg ctgagtagta 360
tagcctgcat ctgttgagag gtctattact cttgaaac 398

<210> 55766
<211> 385

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-A7
 <400> 55766

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 tgtcaaagat aaccatgaag aagctggtgt tggggcaaag cttgctgtag agttgtgcca 120
 gaagcttgaa gcaattgatg gtgactggga ggacataatt gatgacttga ttactgcatt 180
 tgagaagcag cacaagcgga gacttgcata cagcatttca ttctactaac ttgtatagtc 240
 ccgtttggac agagatgttg cagtggatgg ttggtaactt ggcattgtag taagcaactg 300
 catatgagtg aagcatcatg tcgtggcagt gttgcttgaa ttcttccacg cttacatttg 360
 cctgtgctag cctgtttttt aaaaa 385

<210> 55767
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-A8
 <400> 55767

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa taaaaaaaaa aaaaaggggc cccttttgca atttattttt aaattgtaag 180
 cggccgtttt aaagattcaa atttttggaa cgcttttttg aaacgtaata atttttatat 240
 tggggccctt aattaaaata aatgggccgt gttttaaaaa cgtttttaac tggaaaaacc 300
 ttggcgtaac caactttaat ggttt 325

<210> 55768
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-B2
 <400> 55768

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ggcgggcgcg gcctcggtcc tccctgccag agcgcgtcac gccgcccgtg ctaccgacgg 120
 ttaccgtggc agcgacgctc gtgcgctgaa gcgccgtcaa gccgctcctc ctccttcacg 180
 tggcttgccg tcccggcgct accgccagtg cagagcgcac ccgtgctgcc atggcggtgga 240
 gccacggctg tgccgtcacg ggcacggctg ctgccgccac cacggcaagc cggagtgcag 300
 cagctgccga gggactgct gcaggcccag agcgacaggag ccggccgcca aggacaccaa 360
 gcggcgccctg gcgccccgga accactgccg gccggtgctc aagggcgcg cgttcacgt 420
 ctgctccagc tgcttcaagc tgggtgc 446

<210> 55769

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-B3

<400> 55769

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 gttggacgtc ctgtacccta gcgaaggcat ccatcggcga tgggagagtg gttacaggat 120
 aacttccaca gcggccacca atgaccaagc tgctttcatc ttgagcatgc cgaagcgcaa 180
 gccgatggac gagacgcaag aaacccttcg gacctctgcc tttcccagtt cacatgtcaa 240
 ggagaaatgg gcgaagaatc tctacatagc ttcgatctgc tacggacgaa ccgtgtgctg 300
 atagtccaag agagggggcg cccactgac tgagtacggg ggcttgcgtc aagagattag 360
 agatgtgaga tgaacattta atcaaaatca gctctaata tgataggatc agttgatctg 420
 aa 442

<210> 55770

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-F2

<400> 55770

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ccatgtgtgg gctctgaaag ggcggaagg ggctaagcaa gggcggcgcg aagcgtcacc 120
gcaaggctct ccgcgacaac atccaggga ttacgaagcc ggcgatccgg aggctggcga 180
gaaggggcgc cgtgaagcgc atctcggggc tcatctacga ggagaccgcg ggcgtgctca 240
agatcttctc cgagaatgtc attcgcgacg ctgtcaccta cacggagcac gcccgccgta 300
agaccgtcac cgccatggac gtcgtctacg cgctcaagcg gcaaggccgc accctcta 358

<210> 55771
<211> 361
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-F3

<400> 55771
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gacgacgatg cgctcgccgg acggcaagaa gctggacatg ctagccggag gaggacctcg 120
gcagcatgcc ctacctcaag gcgaccatca aggagacgct gcgcctgcac ccgccggcgc 180
cgttctctct cccgcactac tccaccgccg actccgagat cgacggctac ttcgtcccag 240
ccgggacgcg cgtcctcgtc aacgcctggg cgctcgggag ggaccgcacg acgtgggaga 300
agccggagga gttcatgccg gagcggttcg tgcaggaacc cggcgccgtg gacgtncaca 360
t 361

<210> 55772
<211> 214
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-010-Q1-K1-G1

<400> 55772
caacaccacc aactccctgc cgggactcct gctcgccctc tgatcactct gagggataaa 60
ttaaatacca tctctatcta tatactacgt atcatccttg tcgtccgcag tcattcagtg 120
caaccgtgtg tatgtatgta tctacgtacg tattgtattt ctatcccatc catggccgta 180
tgtcacttat tatatatata caacatatct catc 214

<210> 55773
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-G10

<400> 55773

atcgactggg aagagggttg aaagcagctt gagctggaag gctgggactc cttcgagaag 60
 agctttgaca gcctactcgt gagcctgcag gagaagggca acagcctcaa gatggcgagt 120
 gtgtaaagct gagaagattg ggtacctgcg agtgaacgat ttactaaat aaaatgctag 180
 cttgctggct ctctcttag tttttacgct gtacctttgc tctcaatttt ctgaatcggc 240
 tttgtatccc aggcttgcca gaacgtcatt gtgtagccac tgttcattggc ttgtaattgc 300
 tacgggggat ccgataacgt cattgtggat gatgcctgtt tgcctgact cttgaactca 360
 atgtcgccat gtggtttcta tgc 383

<210> 55774
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-G11

<400> 55774

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 ctgcatgctt tactttttgt ggacctggaa ggcattgtctt tgtataaagt tgaagtacct 120
 tgaagtgtcg ctaactggaa ggcttcagag accttatttt cttcacagca tccaagacaa 180
 tgttcatttc atttcaacc caccattact cttttcctat cataaagaac catgtgttcc 240
 catgaataga tgtgacacaa ctacaaaaat atcagtaaag ccatactaca gaacgagaac 300
 tgttaggata gtgattacat gcttgagaaa tgcaatgtca acataaagag cttgacacga 360
 gatcgattgt cgaggcacca tctattggga ctgtataacc caaaaggtgg atcaatgcc 420
 acata 425

<210> 55775
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-G6

<400> 55775

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gggagcggtt ttaaaataaa taccacacct actacataaa agcacacaac ctctataatc 120
aaaatttttc taactataaa aatcaagctc ataccactc acttatagcc tacataaaat 180
gctaactaac cagctcttct cactcctttt actcttgatc acactatttt atcaatgaac 240
aattacttta taccatcc tta 263

<210> 55776

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-D3

<400> 55776

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ttcaatggaa gtactcgctt ggctcattca agctcgtagg ccatactgct ccagcgcagg 120
cagcatcatt gttaatagtg gggccttttg tggacttctg gctgactaac aaaagagttg 180
atgcttttaa ctacacatca atagttacgt tctttatcgt gttgtcgtgc ataattgccg 240
ttgggacgaa tctaagccaa ttcatatgca tcggaagatt cacagccgtc tcgttccaag 300
tcctaggcca catgaagaca gttctgggtg tgaccttggg gttccttttc tttgggaaag 360
aggggctcaa cttccatgct gcccttggca tgcttctggc tgtgatcggc atgatctggt 420

<210> 55777

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-D4

<400> 55777

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atacttacag ctacggcgta acaagtcgca atccctctca gagagtcaga aatggcatac 120

ctcatagctg tttcgcggct ggcagacacg agccagtcgc agtgcgctgg gtccggctga 180
 tcctgagctc ggcacgtctt cccggcggag gagcctgctg gactgacaag ccgcggcagg 240
 cgctctgcgt accaaacggc ccgtctgcag gcgatccggg tccatattgg acggccgttc 300
 acccgcgcaa aggcgggtac cgacttctc 329

<210> 55778
 <211> 97
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-010-Q1-K1-E3
 <400> 55778

aaaaaaaaa aaaaaaggaa gttttaataa aatattagaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaat atcaaaactt tttaaaaaat taatact 97

<210> 55779
 <211> 240
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-010-Q1-K1-E5
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 gtagggggct gttaaaagga gactggtggt ctctgccatc aaaaccctgt gcagaatagt 120
 ggtacgtgct tctttacttc cctattagat tcagtttatt tctatgtaat gcttggtttt 180
 catgtaacat ccttttagatt ttgttgttca gtgatatctg tctgcataa tttgtcttac 240

<210> 55780
 <211> 195
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-E6
 <400> 55780

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 aaaaaacacn aaaaaaaca aaaataaata aaaaaaaaaa taaataaaat aaataaaaat 120

aaacaaaaat aaaaataaaa taaataaaaa acaaataaaa taaaaaataa taaaaataat 180
 aaaaaacaaa ataaa 195

<210> 55781
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-010-Q1-K1-E9
 <400> 55781

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 ccaccggcac tggagctgga gggaaggcga agaaggagc ggccggtcgc aaggccggcg 120
 ggccgaggaa gaagtcggtg acgaggtccg tgaaggccgg gctccagtgc cccgtcggcc 180
 gcatcgggcg ctacctcaag aagggccgct acgcgcagcg cgtcggcagc ggtgcccccg 240
 tctacctcgc ggccgtcctg gagtacctcg ccgctgaggt cctggagctc gccggcaacg 300
 ctgccaagga caacaagaag acgcgcacgc tcccgcgcca cgtgctgctg gcgatccgca 360
 acgacgagga g 371

<210> 55782
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-010-Q1-K1-C8
 <400> 55782

cggacgcgtg gggtttttct caacgtcttt cataactaatg atattagcaa attatgtaag 60
 ataataacca tgatatacaa cttatataaa ttattatggt atatttgtagc atttttagcta 120
 aactatttga catctaatat aattgtaagt tcataagcgt agatatattt tctagatatg 180
 agcttagcgg taggtaattt tgcttatcta ttaccgtaat aagcttgatg actgaggtag 240
 acatctgatt tatatttaaat ctaactgttt ctctatgtga atggatacat atattaactc 300
 aggtagcact acaactagca atgtatggat gaattgaagg aagtaaaaga aggcagacaa 360
 tcttataaaa actctgcat 379

<210> 55783
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-B10

<400> 55783

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 cactttatca ggtggtcaga agagtagggg tgcattcgcg aaaataacct tcaagaagcc 120
 gcacatcatt ctcttgacg agccttctaa ccatcttgat ctggacgctg ttgaggcgct 180
 catccagggt ttactcattt ttcagggagg ggtgctgatg gtgagtcacg atgagcatct 240
 tatcactgga agcgtggacg agctttgggt ggtgtcggaa ggcaggggtga ccccgttctc 300
 gggcactttc aaggactaca agaagatgct caagtaacaa aaacatgtat tatcgaccat 360
 agcctatata tctatatgct tgctattacg gtgtattacc gtataaattt tggagtaaag 420
 catcgaatta ttat 434

<210> 55784
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-C1

<400> 55784

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 gtggccaacc tacgcactcg gtggactgtg atgatggact ggacttaaaa taccaccttt 120
 atccactaca cataccgtca cactacacct gagtttatgc ctccaatcat aagcggatga 180
 ttaactcttt agaaagccaa gatcactctg accacaaacc gaaaacaatc cttgaagaac 240
 acttcttctc tatgaggcca ccgccccatg atggatggct tctaagagta aaccgcgttc 300
 tcacaacat cttacgatgt atttgcattc ttaaaatggt agttgatgat ggcattctca 360
 cgccaaaggc agattgattg atgttggtacc tggagcacc 399

<210> 55785
 <211> 315
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-C12

<400> 55785

aaaaaaaaa aaaaaaaaaa aaaatatata tttaaaaaaa aaaaaaaaaa aaaaaaatgg 60

ccgttttatat ataaaaaaaaat acatactaaa aaaaacctcc aaccaattta aaatctcaca 120

ttcttttcttc cccttactta caacctctta ccttttatatt acaaccacct aaattcattt 180

aacttacctt aatttcacat caatccacct gcaaaaacct tctctttccc taattaaatc 240

cctttccaac acttccccct ttatccatct ttcttataat ttaacaacct taatccatc 300

tcctttccca acttt 315

<210> 55786

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-C2

<400> 55786

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aaatatacat ctgatataaa ttattatctt atattactac attttaccta aactatttta 120

catctaatat aattataagt tcataatctt atatatattt tctatatatg atcttcaact 180

atagtaatct catcttattt attaccaaca taatctttat tacttaaaaa aacatcatat 240

ttatatttaa tctaactatc ctatatattta attcatacat acataaact 289

<210> 55787

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-C3

<400> 55787

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tttgtaccac tttgcactgc ttttcgtctc tctccgattc cgtcgaagca caaggggtggc 120

tgctggttta ggtcgcaaag gcagaaactc ggcagtcgta gggaccatta ccagcataga 180

gcaagcacc agctgaggga gtncatgga ggaaagatac ccagaggagc gacgcgagcg 240
gaggccatca agcgggggacg ccgagcaggc tgattacacg cggctacagc acgtgccatg 300
catgctgctt cgcgac 316

<210> 55788
<211> 255
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-009-Q1-K1-H1
<400> 55788

gtcacctctg catccttcca acctaactaa tttccatata tccaaggacc tttggggcgg 60
actgaattct ggggtggcgca gaccatcttt tcacctaacy gtgatggact aagacgagat 120
catgccctac cgctcggagc tatgacatgg agatcgctga aatatgtgct ccaccacaag 180
agcacaactg catgctcatg aacaggattg tgcacaacat tgctcgtggg gaacaagagg 240
actggtacag gcgcc 255

<210> 55789
<211> 317
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-009-Q1-K1-H3
<400> 55789

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gcctcgccag tcccctcgcc tctttctcgt ttgcccgggc gtccacagca tctgcccgtc 120
ctgccaccac gtttcggctg cgaccccttc gcccggaata cgaatgatga gagcaggata 180
aggatagcaa aagcaattat gcgctgcaga agtcctttgc attgcagttt tccactggaa 240
ggttgtgatg caaggtacaa aagataactt gtagacagaa accataatgc ctgaccctgc 300
ttattcgatc tcaatta 317

<210> 55790
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-A1

<400> 55790

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ttgccaggca acaaggtttg acatccttag cagatcagac agatccttta cggaggatct 120
gagtgtagtt gggaacagtt cttcatactc cagagtcgac gaaccgtcta gcagcagtac 180
gcaccgaaca gtagaggggtt caaacggctg gtgggccgag gtggctgagg ctggaaccag 240
gatcgctgaa tctgatgtta cagtggaggc tgggtgttggc aattcgtcca cttcagctgt 300
gtccaacatt ggctcgggca gtgttcctga tagctttcaa gagcagatga tgctagccat 360
ggctctttcg ctggtcgatg cgcgtgctat ggcaggttct ccaaggttag cttggcggtta 420
gcgttt 426

<210> 55791

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-A12

<400> 55791

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tccgatgtac acttctcttg gtgttatgac aagggaaca atcattgagg taaatgtcag 120
tgagcttggt ctggtaactc ccgctggaaa agttgttttg gggaaatatg ctcaagttac 180
aaacaacccg gagaatgatg ggtgtatcaa tgctgttttg ctagttaga accatagtga 240
gattttgttt atgggtgatga atcgtcccat ttgtatctgc tcttgataag atgctccctt 300
ttgaccgatc tcatggctct tccnnaataa aaaaaagttt aaaataaaaa 350

<210> 55792

<211> 525

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-A2

<400> 55792

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 gatcttctag atgcattctg ctttgcccga cagacaatgg tttgacgata ctgtagcaat 120
 atcatgacat gattccttta ctagttagat attggagtgt cagtttggtg aacaggctat 180
 ttcatgactc tcatattacg acagaacacg atctagcatg ctagtaccgc actcgaacca 240
 gtaagaggtg ttcaaaccgg ctttggtggt cctgagtgtg gcatgaaggc tttggaacta 300
 ggaatcgctt gaatttcttg atgttaccga gtggaggctt tgggtgttggc aatttcgtcc 360
 actttcagct tgtgtccaaa cattggcttc gggccagtgt ttcttgataa gcttcgagga 420
 gcaagatgat gcttagccat ggcttctttc gcttggtcga tgcgcgtgct agggcaagtt 480
 cttcaggggt agcttggcgg tagcgtttgt tagtaggcca tttta 525

<210> 55793
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-A3
 <400> 55793

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 tttacagcaa acgaccacca gtaagacctt atcaagcatg ctacaaaaac cgaccttgc 180
 gcaatggatt ttcatcacac aaatctaaca ataagtctct gtaatgtaca tccacctacc 240
 tacacatatt gcgccatata cgcaactgttt gttaccatat catctggaca gtcattcttt 300
 catcacataa taattgctct tctacgactg tcacaactat cagtccaaag accatcttca 360
 aatactgaca tttcaaaatt ttgatata 388

<210> 55794
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-A4
 <400> 55794

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gagaaggtga aatgttgagt tgcagaatga ccaacttgta ctggaaggag tctcggggtg 120
atgagagatg agaagggcac aaaacagaca gcgaacatga tgnngggcac tcatcgacaa 180
tgtgagtatc tagcagcacg gttttactcc ttatgatcca ataaggagct tcttgcagtt 240
caacatcgtg cagcagcctc agttctattc tcagcaggag gaccggaaag acttcaacga 300
ccaaggtgga agataaatat tggacctctc aagcttcagt acttatccgt gatgatgcat 360
gactgccagt gagaaactga gctacattac ttggggatta tatgtaaaga ctagtactac 420
tgctttatat atgtgcatgt gcgcaca 447

<210> 55795
<211> 165
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-010-Q1-K1-A6
<400> 55795

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ttttgaaaaa ggtttgagtt taggaaaaga attgtttact gtagtgattc aataaccctt 120
caccctgtct gcattacaac tttcatatat gatgtgaacg ttttg 165

<210> 55796
<211> 399
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-009-Q1-K1-G6
<400> 55796

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catatttctg ccagccagtc attgctggac ttggagatga caacgtacca ttcatttgta 120
ccatggactg cctcggtgca aaggagctgg ccaaggattt tgttgtttct ggaacagcat 180
cagaatcttt gtatggtgct tgtgaatcca tgtacaagcc ggacatgcaa cctgatgaac 240
tcttcgagac tatatcccaa gccctgaatt catcagtaga ccgtgactgc cttagcggat 300
ggggtggcta tgtgttgatt gtgacaccga ctgaagtgag ggagcatgtg attaagagca 360
ggatggacta aataatggcc actagaatta ttagctggg 399

<210> 55797
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-D9

 <400> 55797

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 tctagtgcac tggccaaagt ggaatctgag attaaagcta ttgtagaggc ttccaagaag 120
 agccccgttgt tttctcaatt cataaaggac ttgtcagttc caaaagcgac caggggtgaag 180
 gctatagccg aaatatttgc tgacgctggg ttttcagatg ttacaaagaa tttcttggct 240
 gtcctggcgg acaatggcag gctgaaatat attgaacgca ttgcggagag atttggtgat 300
 ttgactatgg aacataaggg ggagatgaag gttgtggtca ggacagttat ttcactcacc 360
 aaggaggagg agaaagaact c 381

<210> 55798
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-E10

 <400> 55798

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 cnnngatgta ggttgccagg ttgcacttgg gtcttcnggc aacagtgact tgggtgactgt 120
 ccttgccaac gaggtcgagg tcatcaggcc gaagaagagc gacaggatca agatattgaa 180
 cggcaatttc cgtgggtaca caggaaagct cataagtata gatggttctg acggaataat 240
 gaggcttgac gaaacatacg aagttaagat cttagatatg gtgatttttg ccaaactggc 300
 cacttaagat cttagatgta tatgtt 326

<210> 55799
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-E2

<400> 55799

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ctcaccttag tctacataga ataccgtccg tttttattgt agcgcaagga ccactccttc 120
tcctatctac ccccttacct cgtgatggac ctcttccgc accagacgtg caacctgctc 180
aagacctctt tctttctttg cctcgtgctc tatgacgcg gcctgttctc ttcgctcatg 240
tccaacacct ttaactacat ctacaccagc aactgctca agatccctta cctca 295

<210> 55800
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-E7

<400> 55800

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ttgctctca cattaaagct nttttacacg cttccaagaa aagcccgttg ttttctcaat 120
tcataaaaga cttgtcagtt ccaaaatcta ccatggtgaa ggctataacc aaaatatttg 180
ctgacgtctt tttttcagat cttacaaata atttcttggc tgtcctcgcg gacaatggca 240
ggcttaaata tattgaacgc attgcggaag gatttgttta ttttactatt gaacataagg 300
gggaaatgaa cgttgttgtc aagacattta tttcactcac caaggaggat gataaagaac 360
tc 362

<210> 55801
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-E9

<400> 55801

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ggaaccgtac tgtatctcaa cttaaactcg aaaagaagtg tatcaccaaa ggattgctac 120

cgagacattc acctggcttg agctggcttt tgctatagcg tgcaaggggt tgctgggtgt 180
 cgtacctacc tgacttatca ttatctgtgg ttacattctg gacctgtat tttctatgct 240
 ttcattgtctc tctactttct agtattaatt atcaataagt tggtttgga tggttgaatt 300
 gcatccaa 308

<210> 55802
 <211> 262
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-F12
 <400> 55802

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 gacagcaacc gggttctgga tctgatcgct cacatggctc ttgtgagcgc caagcactga 120
 tgttcgtact cgttctcca gtaccagtag tagcctagat aagaggctgc agttttgacg 180
 gccattttct tttagctggt gtttggaata aaagacaaa tgttggaaca cttggaactc 240
 gcgcaaaact ggaatccgnt tc 262

<210> 55803
 <211> 284
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-009-Q1-K1-F5
 <400> 55803

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 atcggggggg gtttagggcc ctgctgcaga tattcctggg ggaagcctac ctccattgtc 120
 cgcattgttt taatcgtagt gaagcatagg gttcactcaa caaactaggc agcccttttc 180
 tggtttagtc agtgctgcaa agcaatcgag ttgttcagaa ttttcttgtg ttgcaagatg 240
 accacaacga caactgtaga cgtatttcag aatttttato aagg 284

<210> 55804
 <211> 225
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-F9

<400> 55804

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 tcttctcgac tcagaattca acgcanaact ttcagatttt ggcttggcaa aagctgggtcc 180
 aactggggat aaaacccatg tatccacaca agtcatgggt actca 225

<210> 55805
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-G12

<400> 55805

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 gtgccgaccg tctgcggcgg cgaggtgatg gcgatggacc cggacgcggt ggcgaaagcc 120
 ttcgtggagc actactaccg gacgttcgac accaaccgcg cggcgctggt ggggctgtat 180
 caggagacct ccatgctcac cttcgagggc cagaagttcc agggcccatc cgccattgcc 240
 ggcaagctcg gatctcttcc cttccaggcc tgcgagcacc agatcgtcac cgctcgactgc 300
 cagccgtcgg ggccccaggg aggcattgct gtcttcgtct ccggttccat ccgcaccggc 360
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<210> 55806
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-G3

<400> 55806

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 aaaaaaaaaa tgatgtagga ttttgactga gcagagcagg ggggtctgaaa ggtggaagga 120
 agggctctgc ttggttttcc tgcacactgc tctctgttt gcgtcttctg tggcgggcggc 180

ggcaatggag actgtcacag acgtaagatg tcatgtgact agtgcccgcc gttgccaaca 240
ctaataattc 249

<210> 55807
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-B8

<400> 55807

cgacccacgc gtgctccac tcttccttc tctttctctg cttcttcac ttctctcaa 60
gggccccccc ttgggggagt gcggcttctt acagacgagc ggcccccca tcttcttcca 120
ctccatcac ttcttctccc tcgctccgt cttcttcac tccatcgagg tgcacatcac 180
cacttactat cgtctagcc ccatagccgg gaccagatc tttcttcgtt acagtctgcc 240
tttatatact tatatacata cattctcatt tacattccct ctaccacttt ttcca 295

<210> 55808
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-B9

<400> 55808

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gtttgatccc ctgatcaaac gctgggactg aaacacatga ttttaaccat ctaaccacat 120
cattgtccac gcactattca agatcccgtg tcagacaaca ggttgccatg gtgaagaagc 180
acatgacaga gaccgagtca atacccttac caccaccatt gtcctgtgct aaagaccgt 240
ccaagctgga tccttatgac ctatcaaagg tttatttccc gcacgaagtt cgttcttgac 300
tcaagctcgt catcaccgac caccacacc tgaggcgaca cgcgacaatt aaacgtcaca 360
ctgcagcgt gtcttgatcc tcttgatggt gcagaatat 399

<210> 55809
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-C12

<400> 55809

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cacagggagg gctttttaca tggcggagcc gccctcatc ctactacctc attatcttct 120
caacttcatg tagctatatt ctacttctt caccgttata taaatccttt tttcttcaaa 180
taacgatttt accaatactg atgacaactt atactctctc catattgttc atcaaataat 240
tttataatta ctctacctc tttataatga actctttatc attaatgcc aactatttcc 300
cctatactta ttctttttcc taattaaatt tcacaattac aattttacat ctttttactc 360
tttttttact ttaacattac atcctttaca tttattccca ctcttccact tctaataatca 420
tccttttt 428

<210> 55810
<211> 315
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-C3

<400> 55810

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cgcacacagg gcgccagccc gagtgaccgg tgcagcctag ggtttccggc ggcgatggcg 120
ggtaagggag ggaagggctc gctggcggcc aagacgacgg cggccaagag caccgactag 180
gacaaggaca ggaagaaggc ccccggtgctg cgtcctctcc gcgccggcct ccagttcccg 240
gtggggtcgca tccaccgcca gctcaagtcg cgtgcctccg cgcacggtcg cgtcggcgcc 300
accgccgtcg tctat 315

<210> 55811
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-C4

<400> 55811

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 gagaacagag tactgagagg cgacaagaag atcactagac accactgtcc ggtctaggct 120
 atcttgagaa aggccttcttg gtgggctaaa tgacgaaaga aaatatccag gactgggtgg 180
 tcattcaaac atcaactgag ctatccagta gccagggtttt aagtgtgttg taatgcttca 240
 atgtgtttca ttttccaaag acctgagctt cgcttgtgat ttgttccgag ctgtacgggtg 300
 tcgattttgt gtatataata taatataacg aaataaaggg tttttattaa acccccctta 360
 attaaaaa 368

<210> 55812
 <211> 216
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-C8

<400> 55812
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 nccancatta ttatntgctt atcttttata tttactagtt ttgtcttctt atatctttct 120
 ttctttctcc cccccctccc tcctttcgac tctttactga aacttcttat agattctcaa 180
 tattttttta tcttattcct atgctacttt ttaaaa 216

<210> 55813
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-009-Q1-K1-D4

<400> 55813
 aaaaaaaggt tatttcctgg cccaataaaa tggggatttg gggaagggtcc accgtctgga 60
 cgtataccaa gcttaaaacta ctggtttaga gctcgagggg aactctcaga cgaccaggct 120
 ctacacagat gtgtttagc atatgcttcg gatctactat tttctggggg gagccttaac 180
 cctcatcggg agaagggttt gaagacatac tgccctcagtc ttgaccattc catctggttc 240
 cacaaacctg tgaaggctga cgaatggatg ctgtatgtga tcgagagccc atctgcgcac 300

ggtggtcgcg gtttcgtcac cggacgcatg ttcaacaagc aaggagagct tatcatgtcg 360
ctgacccaaa aggcattgat tcg 383

<210> 55814
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-D5

<400> 55814

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ctcgagggga actctcaaac gaccagtctc tacacagatg tgtttagca tatgcttcgg 120
atctactatt ttctggggtg agccttaacc ctcatcgga gaagggtttg aagacatact 180
gcctcagtct tgaccattcc atctggttcc acaaacctgt gaaggctgac gaatggatgc 240
tgtatgtgat cgagagccca tctgcgcacg gtggtcgagg tttcgtcacc ggacgcatgt 300
tcaacaggca aggagagctt atcatgtcgc tgaccaaga ggcattgatt cgaagggaga 360
agccgggagg tccaaatccg agt 383

<210> 55815
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-D6

<400> 55815

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caacacatgg ttgatcaact gacagaactt cagaaaaagg a 101

<210> 55816
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-B5

<400> 55816

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aagtttttatt ataaaaataa aaaaaacaaa aaaaaacata ccctaaatta caaacctta 120
aattatttta taataactcc taaa 144

<210> 55817
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-A10

<400> 55817

cgttaaactc atgcccttct tggtcataaa taatttttca cacaaaaaca aaaa 54

<210> 55818
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-A12

<400> 55818

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tggtgccggc cacacccacc tttccttaac ttcctcaact actaccttct actccttttc 120
ttttaaaaaa ttacaatgct taaattcaaa ccattttttc tttatacatt tncaatctta 180
attaattttt tagattccag tcctattggt tttgccttct atatcccaat atataattaa 240
tatttacatt ccttttcatt cttattttca tattcacaaa tcaaattctt tgatttatga 300
aagacgaaca acttctaaaa cattttccaa agatgttttc attaate 347

<210> 55819
<211> 329
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-A2

<400> 55819

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agcgtggttg agtagtagta gtgctgtagt aaggtggaaa ttccaccgtg ggagaagggt 120

gtgcacatat gaacaagcaa ctgtgaggtg agtgtgactc gccggcgtaa atgtagacta 180
agatcgccgg tgcaggggtgt ttgatctagt agtctagtta ctatataggt ttgctggaga 240
aaaaaatgat gtaggatttt gactgagcag agcaggggggt ctgaaaggtg gaaaanaaaa 300
aaaaaaaaat atttattttt aaaataaaa 329

<210> 55820
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-009-Q1-K1-A4
<400> 55820

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gcatccgtaa ttctctcttg tggctgctg atgaattacg aactcttcca tgcacttaca 120
agtgccgtca tgatgctgct gcagatttga tccatttgta tgcttataca aagtgccttt 180
tccgagtcg ggattacaag acagtaaaat ctccaccagt tcatatcagt ccgcttgact 240
taggccccaa atatgccgat aaactgggac caggctttca ggagtactgc aagacatacc 300
cagaaaatta ctgcttagcc cagcttatct attggtatag ccagaattca gaacctgaat 360
ctagattgac aagagctaga aaaggttgca tgtcattgcc cgatgtctcg tccttctatg 420
tg 422

<210> 55821
<211> 428
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-A5
<400> 55821

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agtttatatg ggcgcgccg accgccctca ctactgacgg ccgagaagga agaagagatc 120
tcaaggaacc tgaagaagta tagcaagaag tacgaacaag aagaccagga tgcattcaat 180
cagttgagcg agcaggaccg caagaggcgg acacagcttc aggaagaatg ggactcatgg 240

gttgccaagt ggaagcagat gcatgaggag gagcgtgttt acaggagggga gctcanggat 300
 ggggaggcca gcgacgacga ggaagagtat gaggccaagg aagttgaggt ggaggaagtc 360
 gttgatgtcc gtcaagaagt tcttgcatc gacctagatc aggagtgaaa acatttatca 420
 tagaatct 428

<210> 55822
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-009-Q1-K1-A7
 <400> 55822

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 tcttgagcat ggcatgcac ctccaatttc cccaagcca gaatggcgtg ctccgatgga 120
 tgaaatggct gttgtagcaa ctaaagaata tcgatcaatt gtctttcaag agccacgctt 180
 cggtgaatac ttcagatcgg ctacgcctga gactgagtat ggcaggatga atattggcag 240
 ccgtccatca aagaggaagc ctagtggggg aatagaatcg ctccgcgcaa tcccatggat 300
 ctttgcttgg acac 314

<210> 55823
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-A8
 <400> 55823

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 taaaaaaca cttgaggaag aggagctaga gtccagtctc acttcgaagc aagcatcatt 120
 accaccggaa ccgtctccag acgcagaagg tgctgtgaca gttgtagtcc gaatgcctga 180
 tggtagtcga caggggcgcc gctttctcaa aactgataaa cttcagttcc tatttgattt 240
 cttagacatt gggaggactt gcaagccagg gacctacaga ttggtgagga catacccaag 300
 gcgcacgttt accaacagcg aggggtgacgt atcattcagt gatcttggcc taacaag 357

<210> 55824
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-A9

 <400> 55824

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 tgagcttgcc aagaaggcaa tgataaaaga tgagaaaaat tccagtgagt caacacgaga 120
 gatcttgcca agaaagcagt gatcaaccat gcaacttttt tattttatatt ttgggtccat 180
 gttgcagaga agcaacagaa catctgcctt tttttgatat tgggaattac attcccgtag 240
 ggccttgaga tggctgtata gtatacatta catgagaaa 279

<210> 55825
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-B10

 <400> 55825

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 ggagaatatg tcggggcgcg gcaagggcgg caagggtctg ggcaagggcg gcgccaagcg 120
 ccaccgcaag gtcctgcgcg acaatatcca gggcatcacc aagccggcga tccggatgct 180
 ggctaggagg ggcggcgctc agcgcatctc cgggctcatc tacgatgaga cccgcggtgt 240
 gctcaagatc tttctggaga acgtcattcg tgacgccgtc acctacaccg agcacgcccc 300
 gcgcaagacc gtcaccgcca tggatgtcgt ctacgcgctc aagcgacagg gccgcaccct 360
 tta 363

<210> 55826
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-B2

 <400> 55826

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attctggatc agattgtctt cgagcgcacg ccgcaatggt caactgcgca gcgctggctt 120
ggctgtcaga gcgaaacagc ggtaacagag caagacacga ggggtctgca ctctgcagtt 180
gtgcaggagg aggaacagac acaaggggag gacggcgcgc ggccggacat ggcgtggaac 240
agagatcgtc gtcaccgccg gcgggggtgt ggtcgacgac gcgacatgcg aaacactacg 300
tgctagctag cataggaaaa aacaacatga aatcgtacaa ccaaccaatc cctcgcaactg 360
ttttaagtgt tagctgtagg cgaaactggt catccaattg atcaaatgaa acttattt 418

<210> 55827

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-B3

<400> 55827

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cagctagcgc ctgctccctt gcgccgttga tcatgtcttg cagcagcggc aagtgcgact 120
gcggctccag ctgctcctgc ggcagctcat gcaactgcat gtcccctaac gtggagaccg 180
ccgccgccag cagcatcaag accatggctc tcgctgcgcc gaccaccaag gccagcgccg 240
gcggcttcga ggcggccacc gagggcggcg gctgcgactg caacacctgc aagtgcggca 300
ccagctgcgg ctgctcctgc tgcagctgca actgagcgcc ggccggcccg gcgatggcgc 360
gcacgagtcg acggaaggac gacgacgagt cgtataaata taatagcggc gtctatataa 420
gatcctgtca act 433

<210> 55828

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-H5

<400> 55828

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tccacacctt gcgtgataac tctgcgagtt acacatatat aatgcatacg gtcaatacaa 120

actgtctacg accccttcat cgacgccgac agcctgttcc gcagctctgg caccaccagc 180
caccagcaga ctgcgatgtc ggagctagtc ggcttattct gccagacttc ccacgaaacc 240
accggtggat cggcgactgc tccggatgga ccgtntgcct gaggatactg ccgagtgaag 300
gaacagcaac ggacgggtccc aacgtactat gga 333

<210> 55829
<211> 268
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-G1
<400> 55829

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gcaaatgcca tcgtttgaga gcttggttga atgtgttttag acttgagtat gatcatctca 120
attgtgtgtt gcagggtgtg taagggtgct attggacttg atggctcctt ttatgtttgg 180
tcactcaatt ctgtagtga cagaaatttc tgggtgcctc aagtttgctg tctgagatgc 240
ttatattatt tattttgttc tatgggtgg 268

<210> 55830
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-G10
<400> 55830

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gtcgtacgtg tatggcttgt atgggttatt gccaaacttaa taaaagcaca ctctgtttgc 120
ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaagg ggggccgttt aaaaggacca aagtttactt ccctgcatt 300
ccaacctaaa agttttttta tagggtcccc aaaattaaat taaggggccg cgttttaaaa 360
acgtataaat tggaaaaccc ttggcttacc caaattaaat ccctttgaaa aaaatcccct 420
tt 422

<210> 55831
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-G11

 <400> 55831

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 ttaagggtttt tttatagagc accatgactt atcagttttg tgaacaaccc taacttatgt 180
 ggtcctggca ccacaaaacc ttgtcctgat gtcctcctt tttctccacc tctccatac 240
 aaccctacaa ccccgatgca atcaccagga agtagctctt ccactactgg agcaattggt 300
 ggtggagtgg ctgctggcgc agccttgcta tttgctgac ctgctatcag ttttgcttat 360
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 gtctttgatt attatc 436

<210> 55832
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-G2

 <400> 55832

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 agtgctggta caaacttgta tgaattgaaa ctagatctga atgacaaagt aaacgttgag 180
 gctagcaaaa taagtgtggg ggtcagggtc atattctgta tcgtagaaaa agctgaagcc 240
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 tgggacaaat ggggtgatga agatgatgat ggtgctgata tcaacatgga tgggatggac 360
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 ggtatgggtg gtcttggt 438

<210> 55833

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-G3

 <400> 55833

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 cgccttcccc aaacctactt cgtgagacgc tgttcaagtg ttcattgacaa aaactccgtg 180
 ctctcaagga cagctatagt ttgcttctag ttttcgagtg tattggccta ttctatTTTT 240
 gcatagtata gaatgcgcag tttttggacc gtaataaatt tatagaagat gcataacacg 300
 ccaaagttct ggaagagcat tgttttaatt ttgccgtaat gaaaatcatt agtgttcag 359

<210> 55834
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-G4

 <400> 55834

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 tgagaattct cagttaaact cccaagaccg ttcattggac atcaaagctc gacatgagat 180
 attgtgctct agttgagggt tgtgcgtcaa taatactttt ttatcaaagt tcactcgagg 240
 aatgcaagaa ttaggatagg ccaattagat cttttttatt ggtgtatact gagtttcctc 300
 tgataaggac cctgtgtcac cacctgggtc aattttacta aacatttttg ccactagcct 360
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<210> 55835
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-008-Q1-K1-G5

 <400> 55835

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caagcaggcc ctccgtgaga aactccggcg ctctacggc gccggagctg cctccgtcac 180
accggaggcc aggcgggccg gcgaaccaag ccgtggcgct gagtgccgcg gctcggcggc 240
cgaagacccc ataaggagag tcatgttctt ggctccctgg ggtcacacat aagaacacaa 300
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t 361

<210> 55836
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-G8

<400> 55836

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cctccttaag gcactgtctg gtgcaagtgc aacagctatt ccgtaggaag ttaagagctt 180
ggtcagcggg aacggcaact ccctaggccg catatttttg gatgacgcaa ggaagtagct 240
tgattgtttc gcaccgtgtt ttccctagcg acttgatga cacaagggat gatgcttcca 300
ttatacagta gagtagtggt ggtgacatgt acgca 335

<210> 55837
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-G9

<400> 55837

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ggcgaagaag ggcgcggccg ggcgcaaggc cggcgggccg aggaagaagt cggtgacgag 180
gtccggcaag gccgggctgc agttccccgt cggccgcatac gggcgggtatc tgaagaagg 240

ccggtacgcg cagcgcgctcg gcacggggcgc ccccgctctac ctggccgcgcg tcctcgagta 300
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 catcatcccg cgccacgtgc tcctggccat ccgcaacgac gaggagctcg gcaagctgct 420
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<210> 55838
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-H11
 <400> 55838

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 tgcaacaatc tatgctttgc ttggaattcc tctgtcatat tcgatatggg acaggccact 180
 ctaccgtgca atgaggacta acagtgcctt cagttttgga tggtttttcc tgtgttacct 240
 gatccacatt ggtttttgca taattgctgc cattgctcca ccaattgtat ttcattgggaa 300
 atcattaact ggtattctgg ctgcgattga cactttctct gaacatgtga taattgggat 360
 cttttacttt gtgggggttg cactgttttg tctggagaca ctgctgagca ttgggggttct 420
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<210> 55839
 <211> 393
 <212> DNA
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 <223> Clone ID: LIB3088-008-Q1-K1-H12
 <400> 55839

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 tgaggcatct gtaatgttca tgtgtatagc ctgcagcgtg atgaaccact tactgggac 180
 tgtacagggc taggtcgact agctctgaat tcatgtggat agagcggaac cggatggacc 240
 tgaatcacat tcatgtcaaa ctacttggtta acattgctca atccactca atccatgtga 300

aatgagaata accgaccaag cctgagagg gcacgttact tcattcacga aggattgggc 360
acttgaagtt aaaagaatca tacacatctt gtt 393

<210> 55840
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-H3

<400> 55840

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tactaacaat ttaagtccaa gaaaaatcaa cagtgaagtt caactcagca gattaaatct 120
tcaaagtgcc gtttttaact gggagttgag ctg 153

<210> 55841
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-008-Q1-K1-H4

<400> 55841

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tcgtatagtg gcttatttgc tgtttcatag acattgctcc caggttgcag cagcaacaaa 180
agaagaaatc atatcctcaa ccccttgac actagaacct gagctgaagg taccattggg 240
aactactatg gtactatcag aagatcaact gctttcagag gatcaacgag atgagcaaaa 300
aatgcgcttg cagccgtcac aataagatgc tgattgatca actgttcaga atcaatatga 360
tagcaaaccc cgtgatgatg acagtctgct gatcacctgt ggctccggag atcccttggtg 420
taatatgtaa ccatntcaac attgtagcat tctttttttt tt 462

<210> 55842
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F9

<400> 55842

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ctggaagctg aagaagaagt gcctcgatca ttacactttg gttgactact ataggacatg 120
cagccttgag gagctatagc agtctagata ctataggggc tctagatatg aaactatagg 180
attattgcta ataattgcaa atgcttaata attgaacttg aaaccataag aatggctaag 240
agtctgatgc ataaggattt gagatatatg gattggagat atatgaatat tcgacgggtg 300
gaattcagga gaagaaaagg aacttgTTTT caagaatgca ctgcgttgct cggacgagag 360
acgggacgga ataaaatgcg tgtgggtctgt aaagggtcca agcttacg 408

<210> 55843

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-E12

<400> 55843

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cataagggtga tgcattcaag ggatcttcag aagctggaag gcaccccttc tcttcacac 180
ttggagggtta tttagctctg cactacattg tgccattatg ttgtgaatgg acccatgtat 240
tggaatgtga attgtgaacc cataacccta aacagggttg ggtgtggtat taatagactt 300
gagtaattgg gtctggccca ttacaacgag ggtgagacgg taattacatg gggaaggccc 360
caaaccctag acgggtagtc taccctctcg cagtcacaac tctatcctgt ac 412

<210> 55844

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-E5

<400> 55844

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ggtgcgcctg ctctaccgca gggcgctcaa ggacacgctc aactggggccg tccaccgcca 120
 cctctttctac caggacgcgt cggatctccg ggacaagtcc gaggcccaacc gacacgtgga 180
 taacctggac gtggctgata ggctcatcga cgatgcggag gctcagtaca ggaacttcca 240
 gcaccccgat ccctacattg ttccatgggc accaggcggc actaaattca caagaaaccc 300
 cgctacacct caagggatcg agatcatcta caattatggc aaggaggacc agtaaacaag 360
 agtcctgcaa gcggagggca gaacttncac agttccaaat cacttcctgg ttaatcgaag 420
 ttgtgtacga gaaataagaa tgaaatta 448

<210> 55845
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-008-Q1-K1-E6

 <400> 55845

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 agcatgtgca ggagaatgga cttcttcagg atatctttga cattaagggt gacaaaactg 120
 aaaccttgtc gtccactgat aagaaaatct ttaggtctga agaggaaaaa gaaagagctc 180
 tgagattaaa caaggaacgt cgtctagccc aagtaaggaa gaatgccgtc atgttggtatg 240
 agtaacaagg tcaagaagag aaggggaaac aacatcgatt tctgtatctc atttcatccg 300
 ggcccttgtc tgtttgaca ttcatggaa gatgtgcctt catgatagtg tacttttaaag 360
 atactggagt tttatagtgc atttaaccga tatgctntgt gtcgtgcatt ttgaacgtca 420
 gcataatttg tggg 434

<210> 55846
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-E9

 <400> 55846

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gaggaggaag gatgcccgtc cagtgaagat caagaggagc aaggatgttg tcaagttcaa 180
ggtgcgctgc tccaagtact tgtacacgct ctgcgtcttc gatgctgaga aggcaaacaa 240
gttgaagcaa tctcttcccc caggtttgac cgtcgaggag gtctgattgg atacatggca 300
acgtcggggt gaactaccaa agcttcttta tcagtagcag agtatgctac tctatgtact 360
tttggaaact aagctattag acctgtcagt gttggatgtg tggatcttgc atttttggag 420
aaataccaat ttacctc 437

<210> 55847

<211> 360

<212> DNA

<213> Zea mays

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<400> 55847

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gagcctgggg atatatatag tgaatggatt gatgagtgtg agcgtgtcaa cactgttgaa 120
ggcgactacg atgcatgagc ttgacccatg cgatgaaact gttacctaca atcgtaatgt 180
aatgagctga cattctcgaa tgccatagcc catagtcagc catggcttgt aataacgtga 240
tggctgaccg atatgccagt aggcacctta tctagtactt acagaaactac aaaacgttcg 300
tactatacat atatgggcaa ccttataagt ggctatttga gtacctatcc taacgcttat 360

<210> 55848

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F10

<400> 55848

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gtgtttgctt gctatatgtg aaaattaggt gggatatgtg aagttgacct tgagttcgca 120
agtttagctt tcaactttga gactatctcg ctgaacacaa tatgtatacc agctggagag 180
ttgagccaga ggacacgtgc tagttagctg ttcttctcgt gtctgtattt ctcaagtctgc 240

tctcaaagta tatttaaatgt atgacgattc aggttagctt aaaaagttgt gttatctgag 300
 aactcaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaataaaa aaaataa 357

<210> 55849
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-F11
 <400> 55849

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 cggcgacaag aaggacgagc cgtggtggcc cgtgctggac acccgcgaca gcctggtgga 180
 gacgctgacc accatcatgt gggtcacctc cgccaccac tcggccgtca acttcgggca 240
 gtaccacttc gccggtact tccccaacg gccgaccacc atccggaaga acatgccggt 300
 ggaggagggc gggccggcg aggagatgga gaagttcctc aagcagccgg agacgacgct 360
 gctggacatg ctgcccacgc agatgcaggc catcaaggtc atgacgacgc tggacatcct 420
 ctgctgcac 430

<210> 55850
 <211> 190
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-F2
 <400> 55850

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 tccttgcttg ttacatacaa ttgctaacgt tcttgctgca tctaattctc tatgattgta 120
 atccgaacaa tgtgcattta actaaaatgt cgcttttacc tgaaaaaaaa taccattgta 180
 atgacatatt 190

<210> 55851
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F3

<400> 55851

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aagcacaact ccaaggagga ttgctggctc atcatcggcg gcaaggtgta tgatgtgacg 120
aagtttttgg tagaccaccc aggaggtgat gatgttctgt tgtcctcaac tggcaaggat 180
gcgactgatg atttcgagga tgctcggtcac agcaacactg cccgcgcaat gatggatgag 240
tacttgggtgg gtgaaatcga cgcgtcgacg atcccttcca ggacgaagta tgtccccccg 300
aaacaacctc actacaacca ggacaagact cccgagtttg tcatcaagat cctccagttt 360
ttggttcccc tggcaatcct gggcttggct gttgccgtta ggatgtacac 410

<210> 55852

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F4

<400> 55852

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ttaaggtttt tttatagagc accatgactt atcagttttg tgaacaaccc taacttatgt 180
ggtcctggca ccacaaaacc ttgtcctgat gctcctccct tttctccacc ttctccatac 240
aaccctacaa ccccgatgca atcaccagga agtagctctt ccactactgg agcaattggt 300
ggtggagtgg ctgctggcgc atccttgcta tttgctgttc ctgctatcag ttttgcctat 360
tggcggcaca ggaaaccaca agagcaagca tttttttcaa tgtatctggc ttcaaagtta 420
gtctttgatt attatctttc tcgcaa 446

<210> 55853

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F5

<400> 55853

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agctgttgat ctgggtctctc ggctactcca gtactcccca aatctgagat gcactgctgt 120
ggaggcgctt gtccacccat tctttgacga gcttcgagat cctaatactc gtcttccaaa 180
tggccgctta ctgccacccc ttttcaactt caagcctgac gaattgaacg gagtcccagc 240
agacattgtt gcgaaattgg ttccagaaca tgcgaagaag caatgctctt atgttggatc 300
gtgagatgac cgtgccttgg gactggaac 329

<210> 55854

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F6

<400> 55854

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ccaacctgtg cgccatccat gctaagcgtg tgaccatcat gccaaaggac attcagctgg 180
caaggaggat ccgcggcgag agggcctaata cgccacctca aacatcgtga caaaaacatg 240
aagtcctggg gttattgtta atctggtgcc attgtaagga catatgagta gggtttgttt 300
tgtggatcgc aagtttctct tctgctactg ttgctgctac ctttgctggg gttatggcta 360
gggtcgaata cttaagttaa ctatgcgctg acagtctgga ctagcagtggt tatgtgcgct 420
gctggacctt gcgcgcaatg ctgtg 445

<210> 55855

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F8

<400> 55855

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caaggatcaa ctggctatgc aatcctgtgc acaagcaccg ggagctccgt ggtctcacct 120
ccgcaggcaa gaagttccgt ggctgcgtg gcaagggcca cactcaccac aagaataggc 180

cgctcgaggag ggccacctgg aagcgcaacc agaccctttc cctccgccgc taccgttgag 240
cacatacaat ttgatgttct gctactgtgg aacctacctc atgcatgtctc tgatagtatt 300
tggtatTTTT gttgcatcgt taaattttgc tacccatgtt acaagctcct tgaactctgt 360
tatcagtgtgta ccatggagaa attgaagcga actatgtttg tggtt 405

<210> 55856

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-E11

<400> 55856

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gtgatggcgg atgcggctac agcggtgccc gcggctactg tggttgctgc ggcggtctacg 180
gtggtggtgg cggcggatac gtgcatggta accgtggcgg atgctacggc aactccgacg 240
gtaactggat gaactgagca gtggtgcccg cgcggccaag ttatcctgtt cgctaccgtg 300
ttgtttaccc tagtaciaaag tgtttatctt agttcgactc gtgtttgatg ntacccatct 360
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<210> 55857

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C3

<400> 55857

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agcacacatt ccgattctat tcccagcagt ggaggacctg ggcagcctgc ttcattcaag 120
cagcatggcg ccgctactac aagaggaaga tggcggagca gcggcgcaaa gaagaagagg 180
cggcaagccg gccaaagtagt agccacccta gccttggggc gactatctat gcctctcgtt 240
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tcaggctacc gaaacccccca gaaccagatt ttggtgtcga tgatgctgac taacgagaca 360

atcacactgt actcgcttgt aattgtactt tacctcatct gtagattctg tacaagaatc 420
aacgaca 427

<210> 55858
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C5

<400> 55858

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ggctctgaac cagccaagc acggggtcga tatcgtatcg gggaccaggg tgaggactca 180
tttcgccaga cccaactgga aggaaagttt caccaggatc gcctgcaagg atacgaattc 240
aacagttggt gcgttctact ggggcgcaac gaaccttggc aaagagctga agggctctggc 300
gcacg 305

<210> 55859
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C6

<400> 55859

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gggtgcgagc gcaaggtgaa gaaggcggcg gagggcatga agggcgtgag ctccgtggag 180
gtggcgccca agcagaacaa ggtgacggc acgggctacg tggacgccac caaggtcatg 240
cgccgcgtcg cctacaagac aggcaagcgg gtggagccct ggcctacgt gccctacgag 300
atggtgcagc acccctacgc gccgggcgcc tacgacaaga agggccccgt cggctacgtc 360
cgcaacgt 368

<210> 55860
<211> 438

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-D10

 <400> 55860

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 aggggtacaat cttcctgcgg accttgccac tgaataaggc agcgggtaag gagacagagt 240
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 tgagtaacct acagaatgga ctgttccatg tcaggaccgt gtcgaaagaa gaaccattc 360
 ccctcatgaa gtacagcttc ctgccgaagc actcacctct ccctttgagg atgctgctag 420
 tgaagcgtca tagtgga 438

<210> 55861
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-D11

 <400> 55861

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 aaggaactgt gtaccgaggt cctggaatct gacaacacaa acgtgaaggc cttgtacaga 240
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 gctctagaaa tagatcctga caacagggat gtgaagatgg ggtacaagag gctaaaggag 360
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 agcaagcttg aagacacg 438

<210> 55862
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D12

<400> 55862

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atgatctacg cgcgactcac tgtcagatgt taacttggag tgcttgatat cgtggaagct 180
gatgaactga gtaccgatag tcctggcata tgtctacaca tagctgagag gcctcgagcg 240
atatggcaca gagtctcatg cgttccgatg atattgatat gtcccaggcc catatcaaga 300
aagctctagt tatagacact gacaacaggg atgatatgat ggggtacaag aggctggacg 360
agaaggtcta 370

<210> 55863

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D2

<400> 55863

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cagagctact gcagagacgg gggcacgccc acccatctct gaggtgcaca tctacactgc 120
cgctggctac gcaactgcat gccgtggagg gagcaaacat ctcaggtact gttgacacgc 180
attgaaatgt gcatcttact aacacaactc acgattgacc gccggtatgt atcccacgat 240
tatgaacaac acctggcgac cgctgtcatg caactactac acatttcaag ccacaag 297

<210> 55864

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D6

<400> 55864

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cgggtggaggg agcaaagatc tcaggtactc tgcatacggg gtgaaatctc tgtcggacga 180

gcacagcacg ctcttgctgg gcggcatgga tccgtcgatg atggacaact cgtggcgcct 240
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tggtgctagac gagagcacca tcgctgcgct gccgaagacc cagagggagc ccctctcttt 360
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cgacgag 427

<210> 55865
<211> 216
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-D9

<400> 55865
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gtccatggcg tgaagagaac aggaatattg aaacagtatc aaaaatggga gtgacgagtg 120
ttttagtaga gaacgggggtg aaccttgaca tgtttaagct gggctctcagt aactttgcaa 180
ctaactaggc tgccttcagc ataaaagatg attaatt 216

<210> 55866
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-E10

<400> 55866
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taagaggtgt gactaacaat caaagaagat caagaggagc aaggatgtta aaaagatcaa 180
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cagacgcatac aatctattgc cataggtttg atcttctatg acctaataga tagtatacat 300
gccagcgttt aacaaaacta cgactgctaa aacattagta gcacacaatt ctactgtatg 360
taattacata acctaatcta ttacacctgt aatatcaaaa atggccggac ctagcatcct 420
tccaaaaatt ccagcatacc taa 443

<210> 55867
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-A5

 <400> 55867

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 ggggtgcagct tcaagtacat aatgggtcaac tgggtgggtata tgcatatgac tagaactgaa 120
 tcttgtgggtg aattttcaag ttgggtcagtg ttcgatggat ttctttatcc atctacaaat 180
 ctaggaccaa aaagaaaaat ggggtactgca gtccgcatca ccaccagtcc ttgaaagag 240
 caggaaatgg aggagtttgt ctaacatatc tgttatgttc aacaatgggtg tatatattat 300
 tagtcagaat ttagccttgc gctattatga tagaattagt tgcctggtaa acagtgttaa 360
 caatgggtgtt ttgtttatt 379

<210> 55868
 <211> 161
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-A9

 <400> 55868

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 gtaggaccag aaccggattt ggtcacatca ggtgagcatc tttgtctcgg tcgtctgatt 120
 tgactgttct aatccatgtt tgctagtata atcttctttt t 161

<210> 55869
 <211> 95
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-B10

 <400> 55869

 gtgaattgca gaatcccgcg aaccatcgag tttttgaacg caagttgcgc ccgaagcctt 60
 gtggcggagg gcacgtctgc ctgggcagtc acgcc 95

<210> 55870
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B11

<400> 55870

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gtgtcagcaa ttgcttggtta aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aataaaaaaa aaaaaaaaaa aaaaaaaaga acgaaaaaaa aaaaaaaaca aaaataaggt 240
acgctttttt aaaaatccaa taattattca atagggtaac caaaattaaa ttattgaac 300
ggggatttaa aacttaataa ctgggaaaac ttttaaaaaa acccaactta gggaaaaacc 360
tgg 363

<210> 55871
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B12

<400> 55871

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ttgtcagcaa ttacgtgtta aaaaacaaaa aaaaaaaaaa aaaaaaaaat aaaaaaaaaa 120
aaaaaataaa aaaaaagaaa aaaataataa aataaaaaaa tgaaaaaaa aaaaaaaaat 180
aaatatataa ataaaaataa aaaaaaaaag agacatcaat at 222

<210> 55872
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B4

<400> 55872

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tttttacttc ctgagaagga tgatttcatt cagctcacca tcgatacaga tatacatgag 120
 cagaaactcc aaaaaaaaaac aggtcgtaat ttacaaaact caagacacaa caacagtcgc 180
 cgaagcttaa aacgagaggt tgtcctcgac gaggcagccg tcgtcgaagc tccacagcgg 240
 catgtcctgg tccgccgcgg cggcggcggtt gctctgcacg gcgtcggcgc tgaacaggct 300
 gtccagcgac tcgtacgcgc cggcgtcgaa gaaggcgacc cagcggttcg tccacgcgtt 360
 cggtcagaag aagcaaggaa tataaatata atgttcttag t 401

<210> 55873
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-B5
 <400> 55873

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 ccctgggatg ttggatgatc ttgaggcatg cgagcctgtc gttgaagatg caaggttacc 120
 tacttgtacg acgtacgcca atgcgacctg tgtagctgtg agtagtctaa tgttgcagtg 180
 acatgtaatg gcgcaccccc gtcctactaa cagatgctta ctggagattg ccatagctga 240
 tcttgaatt tggtataggg cagtatgaat atatttatgg tagcttgaat ctatttgtgg 300
 attcacttcg tttt 314

<210> 55874
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-008-Q1-K1-B6
 <400> 55874

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 cctggctact actcctcctc cgctccctgt gcgaaatctg gcgccggcgg ccagcagggc 120
 agctccgctg ctccaagga atcgggcttc ttcgccagct gttgtgggtg cttctctggc 180
 ggcgaaaccg cgagatagat agattcagtg ttggaccgag aaccatggat ggatggatgg 240

aacatgcatg cccagtgatt gtttgcgccg gtgaaagtgc aatttgtccg gatttatattt 300
ctctgaaata gtatatgttn tttttctccc atcgggtgagc cggatgatctt gtcaatttgt 360
acaataatca ttatatgcaa ccaactgtgc ttttaatttgc tctgatatc 409

<210> 55875

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B7

<400> 55875

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ggcgcgggcg cgggagggg cgagttctac ctgcggtact acgtggggca caagggaag 180
ttcgggcacg agttcctcga gttcgagttc cgccccgacg gcaagctccg ctacgccaac 240
aactccaact acaagaacga caccatgacg cgcaaggagg tcttcgtctc cccctccgctc 300
cttcgcgagg ccaggaggat catccaggag tccgatatca tgaaggagga cgacagcaac 360
tgccccgagc ccgaccgcat cggccgacag gagctcgaga tcgtcatggg caacgagcac 420
atctcattca ccactttcaa gatcggtccc ctgcgtgatg 460

<210> 55876

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B8

<400> 55876

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cacatctcga gatggttcgg gctggaccag tccaagtacc agtgggagct caacgactat 120
tttgagagga ccggacaggt tatccacac tttagtttct cgttcttctg tttgtagttt 180
gtcagtcttg tttgtttcgg ttggatcaat atctctgatt cctctctggc aggcattgtg 240
tcttttttta ttttgaaaag aggaaaacct ctgcctttaa gaaagcaaca gtatctcgga 300
tcaccagttt accggagaaa gcataacaga taaactaatc ctgatacaga attaaatttc 360

aatgatgtct aaaatcatca caccactagg cttagtgagt gtgccaagca atgcaagggc 420
gtgttgcttt tt 432

<210> 55877
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C1

<400> 55877

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cttcgttggc atcaacaagg gtcattgtcg caccaagcgc gagctgcctc cccgcccgtg 120
ccaccgcaag gggaaatcaa cgaagagggt gtctatggtc aggggcctga tcagagaggt 180
tgctggggtt gtccttatg agaagcgtat cactgagctt ctgaagggtg gcaaggacaa 240
gcgtgccctg aagcttgcta agagaaagct tggaactcac aagagggcaa agaagaagag 300
agaggagatg gcgggcgtcc tcaggaagat gaggtcggct ggtacgcaca ctgacaagaa 360
gaaatagaga gcatttcaag ttcattggagc ctgccagaga ttatgttcca gtgtctgatt 420
ttccatacat gtagaaccta atagacatgt caaagtatta tgtat 465

<210> 55878
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A4

<400> 55878

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gaagtactgg atccccacc cgaagaccgg cgtgttcggc ccggcggctg tggaccccaa 120
gctggcagct ggtggcgcgc ctgacgccgg ctccgatgct gcaagaggca cggtgctgga 180
cctgaagggtg tggctccgcc cgttcgagga cgtctagaag ccgcctccg ccgagtgagc 240
cgcgcggtgc tgcataagcc agcccacact ggttctcgct caaaaaagg gcagcggtag 300
agcctggcat gcactctgct cgagctcagc tgggctggac tgattgctta tatcactact 360
attctatact actag 375

<210> 55879
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C10

<400> 55879

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gttgttggcg catatccttt tgaagatcca gaagagccta agaacttccg caagacaatt 120
cagcgtatct tgaatgttca gtacgcaatt ccagacaacg tgaacatata tccagagtgc 180
atgcatctaa ttctgaggat ttttgttggc gatcctgcta cgcgataaac aatccctgaa 240
atccggaatc atagtgtggt cctgaagaac ctctctgctg atctgatgga tgatgatagc 300
atgagcaacc aatatgagga gcctgaccag ccaatgcaga ccatggatca gatcatgcag 360
attttaacag aggccaccat accacctgcc tgttctcgca gtataaatgt cctagctgat 420
ggactggaca tggac 435

<210> 55880
<211> 119
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C11

<400> 55880

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaggaaaa 60
aggatataaa aaaaaaaaaa attaaaaaaaaa aataaataaa aaaaaaaaaa atataatat 119

<210> 55881
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C12

<400> 55881

ggcgccgctc ggctcgtacc ggttctcat ccttcccgct ctccgtatgc ttatgctctt 60
gatgggtacta gtttcgttgt tcgcaagcag aggaagaacc ttctgtagat tcgggttttgt 120

tgtccatgtg ctcagatggg aacttgagat tgtatgaatt tgagatatgg tgatatgagc 180
 tgatgatttt tattatgctt attgttgctc ctctgagctg tcttttttga acgctatcca 240
 aataaatttg aaaccagatt gctgatgcgt 270

<210> 55882

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G9

<400> 55882

cccacacttc ccaaaaaaaaa acaaatactt taaaacacat acaaaacact aaatgggtaa 60
 cgtaaaaaag aaaaataaaa ctaaaaaaag gtcaaccatt tctaatagcc cattcttaca 120
 atacatctac ttgcaacgct tccacttcta gtatagcttc tccttatttc aatcaattgc 180
 ctgtcctttt acaacactg 199

<210> 55883

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H10

<400> 55883

gacactcgct acggagaagg tgagagagaa tggccatcat catatcacct gaaagtgagc 60
 ttgatttttc agcagacgga ctggatactt ctaggatctc atattatgaa ctcatcttga 120
 catgactgca aggggtgcata ctctcactgg ttgtaacaac tgatactata gctatcgaat 180
 tacacaatgt gcaggaatag atctcagtct gatgaagcca tactagacta aaacattcgt 240
 cctaactaac cagactcatg caaatgtcct gggtcatgcc aaaatccatg tcatacacct 300
 gcagtgggga caagacctta ccgacagata ccctggcatc tcatgtaatc aggggtgttc 360
 agaatactgt ctaaattgaa agcacattcc atagaagatt acatt 405

<210> 55884

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H11

<400> 55884

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caaaaaacat gcttcctatg tgggatgatg gttatcttta ttttgtatg ttaattagtc 120
tctttgctgt taaaaaaaaa aaacaaaaaa gaaaaaaaca ataaaaaaag caatagaatt 180
acacaatgaa caaaaaattg atcgtaatta gatgaaaaaa taccatgaat 230

<210> 55885

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H2

<400> 55885

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tgcacatggt gctggataaa tttatagact ggaggattat agaggactaa caagtgtac 120
tgggagattc tcgagcacca ttgaactaag agattccaaa tagttctttg gagtctattg 180
ttgatgttgg cggggataat ctagcagaga tttgtcagat tttttgtgca acacggaggc 240
tacatgaggc agcaacgatc ccattcttct cgcattgccac tttacacaag ctaaggatag 300
cttctgggtc cactcatggt tgtggcaggg aaagccgagt cagtaggggt tgtcatgtag 360
ctggagttat ctcagaccgc atattagatg cagtgatgat gtttacattt accgtgcaag 420
caagatgact tatattatg 439

<210> 55886

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-007-Q1-K1-H3

<400> 55886

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gatcctgatt ggcccagca tggagtggca actaatacag atgctgtacg ggaaatctgg 120
aaacgactgc atcacattcc aacggaacat cctatagtta tccattgcag tgcacgaatc 180

ggaaggactg gtacttacat cacaatccat actacaattg agcgaattct tcttgagat 240
 aaaagctctt acgatcttgc caaaactgta aagaatttta gatcccaacg acctgngatg 300
 gtccaaacag aggaacaata caagttctgc tacagggcaa ttgctgacga gctgaaagac 360
 ctgctaaatt cagatcattg aggtgggtca catgagacgg acagcaacgc tgntagcatt 420
 tattacgttt ttttagacat ttctatgt 448

<210> 55887

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H4

<400> 55887

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 gattctgggt gtcataca tgctaacagg attatacag aaacagctcg ggcattgtag 120
 ct 122

<210> 55888

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H6

<400> 55888

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 gatttgatcg cgcttttgtg gtgtcagttc aacctgaca cttacatata atctccatat 120
 aatccctcgc catactaact gcatgagttc taataatttt tcaagcatca ctactgttt 180
 atatactacg ctataactta gcagagatgc aagatgttac gtacatcata tactcgatgt 240
 ctgtacgctg tgctgagtta gtgtacgagc tgaatcgaat gcatgactgt gtatatgtat 300
 atagatgaaa acatccacat ggaatgtaat acggaaaact aaatctccaa ctgatcggtt 360
 taaacgtcta gaatatgcaa tattaacac tcgtgcatta gagctcgtac gtatcttata 420

<210> 55889

<211> 432

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H7

<400> 55889

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 tgagcagcaa caactgcgcc aacgtgtgcc agaccgagaa cttccccggc ggcgagtgt 120
 aggcggaggg cgccacgcgc aagtgtttct gcaagaagat atgctagtag tagcctcggc 180
 tttgctggca caagcaggtc gtcggcacgc aacgcaattc aagcatcata tcggtcctcc 240
 tcccgcgttg ctgtctactc gaccccgttt tctctttcga tcgatttcgt tggttcctgt 300
 tgctctcttc ttttcccgcg aataatatgc tccatgggat ctactgttg tactttctgc 360
 atccgttggg agtcaggacg atccttcttc ccgctgtcac gtgtgattca aaatggatgt 420
 actaatgcaa ct 432

<210> 55890
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H8

<400> 55890

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 gtgaacaatc aacaactgca ccaacatatg ccaaaaacga gaacttacc agcagcgagt 120
 gtaaagccga aggcgccacg cgcaagtgtt tctgcaagaa gatatgctag taataacctt 180
 ggctttgctg gcacaagcag gtccgttgca cacaacgcaa ttcacgcac atatctgaac 240
 tccttacggg ttgctgtcta ctgcaccccg ttttctcttt cgatcgattt cgtagcttcc 300
 tgctgtcttc ttcttttccc gcgaataata tgctacatgg gatctcactt gtgtactttc 360
 tgcacccgtt ggtagtcaag accaaccttc ttcccgtgt cacgtttgat tcaaaatgga 420
 tgtactaatg caactgttcg ttc 443

<210> 55891
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H9

<400> 55891

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ttcattcatg catgaattga caacctgtca ttgctttcgt ttctgggggt caagtaaaat 120
cgtttgactg cttgacgagt tcagtgtcgg tgttgccatg taaagtcgtt cttgtaatag 180
tgaatgaata gttcccggtt ggaactagtg gttttttaca ctgctgaaag ccatcgtggt 240
tggcaataat gtctcatggt caatgaaacg tgaaataatt ctgcctgtaa aaaaaaacg 300
tggtaacaaa tctcaacaag ctggtggagc taccaaaatg atccatctga agttactcag 360
aacaagatgc aatcacagat tgattatctt tcgctgaaat aaaaagggg cttccgttt 419

<210> 55892

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A1

<400> 55892

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cacggagctg gacggccgca gcatcacctg caacgaggcc cagtcccgcg gcggacgtgg 120
aggcggcggc ggcggcgggt acggtggtgg ccgtggaggc ggcggttacg gcggaggcgg 180
gcgccgtgat ggcggcggcg gctacggcgg tggcggcggc tacggtggtg gcggaggcgg 240
ctacggtggt ggtggcgag gctacggcgg tggcaaccga ggcggcggct acggaaactc 300
cgacgggaac tggaggaact g 321

<210> 55893

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A10

<400> 55893

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gaagatgtcg gggcgcgga agggcgggaa gggcctgggc aaggcgagg cgaagcgcca 120

ccggaaggtg ctccgcgaca acatccaggg gatcacgaag ccggcgatcc ggcggtggc 180
 gcgcaggggc ggcgtgaagc gcatctccgg gctcatctac gaggagacc gcggcgctcct 240
 caagatcttc ctggagaacg tgatccgcga cgccgtcacc tacaccgagc acgcgcgccg 300
 caagaccgtc acagccatgg acgtcgtcta cgactcaag cgccagggcc gcaccctcta 360
 cggcttcggc ggctaggcta ggccggtcgc gcctcgttgt cgtcgtgctg gttctattgt 420
 ttttgcaatt cgcaagttg 439

<210> 55894

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A11

<400> 55894

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 ccgcggtgac ggcaaacaag gtgggcttcg aactggatct gaactggccc ccgccggcag 180
 agaactaggc aggcgggagt ttttggtgta cgacttagta gcttcctttt cccttttgcc 240
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 gactaagaga tggggagtct tgtaaataatt tttttccgtc gagacggaaa tgaactgaga 360
 tctgttcgtc tgtctgatca agccggcgtt gatatgggct taagctatgg agtattgatt 420
 agt 423

<210> 55895

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A12

<400> 55895

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 agggcgcaga tgcacagagc gactgcgact cgacgtctgt ggatgatcac tccccctcgc 120
 ctaccgcggt gacggcaaac aaggtgggct tcgaactgga tctgaactgg cccccgacag 180

cagagaacta ggcaagccgg agtttttggc tgacgactta ctagcttcct tttcccttat 240
gccttcatca ggaatgttac ttgtggttgt taaggctctg tatggctgta ttcttgttct 300
gtagactaag agatggggag tcttgtaaatt attgttttcc gtcgagacgg aaatgaactg 360
agatctgttc gtctgtctga tcaagccggc gttgatatgg gcttaagcta tggagtattg 420
attagtaatt gccca 434

<210> 55896
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G8

<400> 55896

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acgatgccag cccatctcat gtacgacggc aaggacgaca acctgttcga gcacttcagc 120
gcggtggcgc agaggctggg cgtctacacc gccaaagact acgccgacat cctcgagtgc 180
ctggtccaga ggtggaaagt cgcggagctc acagggctgt ctggagaagg gagaagggcg 240
caggactttg tctgtacctt ggcgccgagg atcagggcgc tggatgatag agctcaagcg 300
agggcgaagc aagcaccggc tattcctttc agttggggtt atgaccgcaa ggtgcagctt 360
taatcaagaa cgctaggcaa tgtgggcatt tactacgtat atcattttca gtcctggggg 420
tctctataag aaacagtctc taggttatct agc 453

<210> 55897
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F2

<400> 55897

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tcaattggga ctggactgat ccacaccagg cacttgagta ggagtatgcg gcatttgaac 120
aggcaatcat gctagctaga cctgattaga tagacagcgt tcgcttccat gtcaaatcat 180
ggacacctac aaggtctatt gcacctgacg agtcgttcac cacctgcaac tgggaaacct 240

gtgtcgaacc aaacatcatt ggcaagtgtg agatccctga tgcgccatgt atcagcacct 300
gatgggaaac ctttgactaa tcacatagca caagctatat gcaagacca taatgaggca 360
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<210> 55898
<211> 460
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-007-Q1-K1-F4
<400> 55898

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gcggcaacct gaatccctgg gagtgctcgc ccaagtgcgg gtcgcgggtgc tccaagacgc 180
agtacaggaa ggcctgcctc accttatgta acaagtgcgt gcgccaagtgc ctctgcgtgc 240
caccgggggt ctacggcaac aagggcgcct gcccctgcta caacaactgg aaaaccaagg 300
aaggaggggc caagtgcctc tagaagatcc accgcagctc ccgtccgcca ttgtccctc 360
ttctccgaat ctggaacgtg ttgntcatct tggaccaccc cctaggcttg gcattntatt 420
actagtataa tgctagtgtc cgccattgct ttaatctgga 460

<210> 55899
<211> 319
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-007-Q1-K1-F5
<400> 55899

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agattcacag ttttgttgac cgtagaaaac gtttattcat ttattagtta caagcgtcct 120
tcccccccc cccccctct ccttttgtaa aagtagtgca tatagcagga ttaagataaa 180
cacatgtaat ggagtatata ttgtgcaact gccatatatt atatgatata tagcggctca 240
tattagggtg ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg 300

acgatttttaa ggaaccaaa

319

<210> 55900

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F6

<400> 55900

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agacaagaag tattggagat gattgaatat gttaattgat ttgctagtta gcagaggtagc 120

aatcatccaa ttatgaatga tgttttgtaa tagcctagta tataggatga ttaagataaa 180

catatgttat gacacatagt atggatcgac tgccatatgt tatatgatat agagcggttc 240

atatta 246

<210> 55901

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F7

<400> 55901

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gctacctgga ggagcccggg agctgggtcc tgtaccatgc tggcgatttt gtggcctcaa 180

agcctgacca gctgatgaag ctgaagttct gcatggcaca gatcgactgc acgcacacaa 240

aatgcgggct gtgcatcgac tcggttctta tctatccaaa agggaagggg tttcaccagg 300

agaggggtggt caggtctcag aaatgagggg tgtagatggt gtggaggtat tcacattagg 360

atgttagagc aaatgcagct tgcagtctga tcttattttt actttgggct ctagtctgca 420

gcaaaagtga agtgtatgtg gttgta 446

<210> 55902

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F9

<400> 55902

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atgggctagg tgtgcacgca tcggcaaggg caacaagccg cgggtgagcc tgcccaaggg 120
caatggtatc aagctcagca tcgataagga gcagatgagg cagcactttg ctgcccacgc 180
tgctgacaaa gcataagtct tgtgaatgac gctgctagca gctatgtgct ataacatagt 240
atatgaggat ctgcacggat ataaaactac ctgctcaaga cggtttatca taatgttgaa 300
tgcgcttttg ataaaaatac caagacgtag gacatacgcc ccttcctttc ttctatgctg 360
aattatgggt gaa 373

<210> 55903

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G1

<400> 55903

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cacctgtagc catggacgcc agcggagccg gtagcaaggg gaagaagggt gcggccgggc 120
gcaaggcagg cggccccagg aagaagtcgg tgacgcggtc cgtcaaggcc gggctgcagt 180
tccccgtcgg cgggatcggg cgctacctga agaagggccg gtacgcgcag cgcgtgggca 240
ctggcgcccc cgtctacctc gccgccgtcc tggagtacct cgccgccgag gttctggagt 300
tggcagggaa cgcggcgaaa gacaacaaga agacgcgcac catcccgcc cactgctcc 360
tggcgatccg caacgactag gagctcggga agctgctggc 400

<210> 55904

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G10

<400> 55904

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ggttctcgta gaacgaagaa ctgcgtgtgt ggatcacaaa actgcagggg attattttga 120
 tgggttgaga gacgtgtctt tgtggtaaat catgcaaacc actttctgct agatcctttc 180
 tatgaaacca aatttagtct ccggataata tgacagatga tgtcatttgc catgtgtact 240
 gtgaagacag taagttgtcg agcgagctgt agaatttctg ttgctctgca ctgcatgggtg 300
 gtcgctttcc caccatttcc tcggatgttt atggggggcg gcattgctgc attgcttccg 360
 ctaaacttgt ccaccaattg caccggcttt tgtagacttg ttatcagccc cgcttgcgtt 420
 ggacgcctgg t 431

<210> 55905
 <211> 331
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-G11
 <400> 55905

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 gaggagtgac cggcccaagg acactcgtct tcagccccag tcaacagagc acaagcgacg 120
 gctggtctcc tctcatggaa caagggtcaaa ctcagataga agggaccatg ggcattctta 180
 tggggcatatc tgacagggcc tcagttgact tccttgaggt tcattctact aggaagcgga 240
 tgcccgtttt ctcccgaagt tagtatgatg gtagacaaat cggtggtgat cgaaaacggt 300
 ccaggagta tgatgactcg tgaggagcac g 331

<210> 55906
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-G12
 <400> 55906

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 ggtcctcaag cgggcccgtgc acgtcacgc cgagcctgac tgacggactc ccagcccag 120
 cgccaggggg aagaaagccg acgccgccga ctccgacgcy ccgtacagtc ggcgatggct 180
 acatgtattc accgataaag gcacgtgct gccttattgc tgagaccatt gttaggtcag 240

tgctagccgt gactcggatga gttgatattg tgacagcaca taaggaatgt ctatgcttgg 300
 gtacattctt ggacacattg cttagacgac tagtgtacat atagatgagt tggcagattg 360
 aactttgttt agctttctaa agtgagcatt tcgcaagaaa 400

<210> 55907

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G2

<400> 55907

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 tagataggcg catacatgtc tgcctataaa tgctaactct gcaatcacca acggaaaaca 120
 caagagtact cttggaggaa aggttatcat tcactctaac aaaccttacc aacttatgcc 180
 ttgtttgaat gcaattatgc atgttcttgt accctgctct tgcttggaca catgcttgac 240
 atggctaaaa aatatacctc gccgacgtcc tggagtacct cgccgccag gttctggagt 300
 tggcagggaa cgcggcgaaa gacaacaaga agacgcgcac catcctgcgc cacgtgcttc 360
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<210> 55908

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G3

<400> 55908

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 tgattactca atggaatata tcctaaccga tctcaagaaa gagatgacat cgccacagaa 180
 ccgcaagcta gttcagcctc cggaaggagc attctgctaa agatggcagc aactcatgtc 240
 catccatggg gactcggaaa cagctttcgc acctgggtcc tatattttat atatttatgt 300
 ctgatcttcc agttatcttg tatactcacc tagatcgagt gcaagcagac ttggttgat 359

<210> 55909

<211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-007-Q1-K1-G4

 <400> 55909

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 catcgaggac cgaatcggat gcgggcaagt cgaggagctc atcgaggagg ccgaggacga 180
 gctcaagctc atcgccaaaa tgattgaatg ggatccgtgg ggtgtccctg atgactacga 240
 atgtgaggtg attgaagacg acaccccaat tcctaagcat gttcctcaac accggcccgt 300
 tgctcttctt gaggagtctt tcaagacact agatgccgtc aaatcagatc ccgtccttca 360
 aggcgatgct cctnctcatg tgaaagcgta aagatgagtc ttcccgggta tgtctaattg 420
 catttcacac tt 432

<210> 55910
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-007-Q1-K1-G5

 <400> 55910

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 tgttaagaca attgatctc agctaaccac ctatgacgaa gaaggtgctt ggccttacct 120
 aatcgatgaa tttgtggact acttgaaaga gaacgggtctt gcctagcata gaaggtgtac 180
 ggaattgggc tgtagggggg agaatttgtc acccacaagg ccaccatcat tgtataactt 240
 aatggttggg tgcttgtatt cattgcacta ccaatagcta atgcggctcg tgcgtctggg 300
 gatggagttt atcctctata tagacaaaac ttgttgaatg atgtgggtgt aaaacgaagg 360
 ctagaatgga agtcaagccc tggttatcgc cattttgaat tcctcatcac gtgcctcgcc 420
 tacgtcattg tgactttgca aaaaaaaaaat aaaagggc 458

<210> 55911
 <211> 419

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-007-Q1-K1-G7

 <400> 55911

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 tatctcatgg aacacggcct tctgtacacg caggtgcaac caggcctgct ccgcatcctg 120
 ctctagtaat ggaactggtc gtcctagctg ttgttcacaa ctggatcaga tgaaaaagaa 180
 gggaaaaaga aaagaaaaga aaagataagt tgacctgtac ttttgtatat ggcagagatt 240
 gctagcagga tagtagcggt aagaacttaa gatagctcat gtaacattca tgtcaggctt 300
 tttgtcagca aatgtatacg tcttaaaatt tgggagttag ggaatattct cgttgtctat 360
 ggtgccggtg gatgcacacg gcatagcgtc ttcacagaat cacaatcata ttctcgatc 419

<210> 55912
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-007-Q1-K1-F12

 <400> 55912

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 tacgccaacg aggtgcccaa gaccgcggag aacttccg cgctgtgcac gggcgagaag 180
 ggcgtgggca agtccgggaa gccgtccac tacaagggt ccacctcca ccgctcatc 240
 cccgagttca tgtgccaggg cggcgacttc acccgcgga acggcacgg cggcgagtcc 300
 atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgn cctcgggtgtg 360
 ctctccatgg ccaacgccgg gcccaacacc aacgggtccc agttcttcat ctgcaccgtc 420
 gcgacccctt ggctc 435

<210> 55913
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D8

<400> 55913

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gacatgtgca acacgttgtg gatgaacggg ccaggatgct gcttaggtgt gatctatcct 120
atccatccat ggataataaa gaagtttgtg gattgctgtt tt 162

<210> 55914

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D9

<400> 55914

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cgccaagaac gtcactttac gtcgcatgga taagatggca gagctggtgg ttcaatgaat 180
ctgggtgagg ttectacttc aaacgatgtt aaaatgctga cgaagcttat ctggtgaggt 240
ctctgttatg gtteggcttc ttggtagaaa gggaatgttt ggttatcgca ctgacatcgt 300
aatgttagaa ccaacacatg cataggcact gagtacattg tcacggcaga ttattatgta 360
ctgcaattct cgaatatttg atgtgaatgc tatgttagat tgctt 405

<210> 55915

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E12

<400> 55915

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tctcgggggc caccgacgtc gactactgca gtaagaagga ctaccgggtg aaggtgagcg 120
gggtgcagat cgtgcccgat ccggtcgaac ccggcaagcc cgccactttc aagatctccg 180
cttctactga taaaaccatc gagaagggga agctggttat cgacgtcaag tatttcttct 240
tctacgtgca ctcggagacc cgcgacatct gcggagagac tttcttgcca gcgaccggcg 300

acttcgtgct ggtccaccag cagacgtgg caggcttcaa tccggcgggc ttctacacga 360
tctacatgaa gattgtccgg gacgacaacc aggaactgaa ctgcatctcg ttcggggtt 418

<210> 55916
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E5

<400> 55916

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ccgccactgt tgaggagctc acatcgctc gacacaacac ggtctctggt ttcaacgtat 180
aataactggg ctgcgagcac tatatggatg atggcttcac gaggcaccag tgccgtgctt 240
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attgaagacg tttcttacca acatgccggg catgcagccg tcaaggacaa tgccaacgag 360
acgcattca acatcaaggt tgtttcacca aaaattgagg ggcagaacct ttgtgaagcg 420
tcacaggatg gtgtatgatc ttctgaggga tga 453

<210> 55917
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E6

<400> 55917

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ttgaactgtt tgacattatt ttacagtttc gaagccatgc tgatcgatgg tttgaaagga 180
tatatgagtt gcagctaagg ggaaagggtg aatcaaaatc aaaggataca ggttcatggt 240
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aagacctgga tagcatcgca aaggattata cagcttctct tgatgctttt attacgcagc 360
tgcccatgca acagcacgtc gatttgaagt tcttctctt ccgccttgac ttcactgaat 420

attacagtcg tggttccttc aacaaatgaa tgtgagc

457

<210> 55918

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E8

<400> 55918

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aaacagtcac tggaaatggc acctcgcttt ctactttat attttgcaac agcattgcga 180

gacgttaatg actcactgct gtgtgctctt attccagtag ttatgtcaag atatgctgca 240

atgttcccag acaaagtttt ctctttcaag gtgagggaaa ggctttcaga cttcattttg 300

gctgcattcc agcggctctcc caacatcatt gcagtactga agaaacctat tactgacaga 360

cttggtgagg ctcatgataa tcttgccaag acagagttag cattgcactt gtgctggggc 420

attggtgagc atggagcttg aggggtgggt cac 453

<210> 55919

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-007-Q1-K1-E9

<400> 55919

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gtccggtgtg caccggactg tccggtgcgc cagatctgca acggtcggca acggtcggat 180

gcgctgttta aggaacaaaa tcaggcacccg gacagtgtcc ggtgtgcacc ggactgtccg 240

gtgcgccacg agacagaagg caaagatggc cttccagatt tgttcccaac ggctcctagc 300

tgccttgngg ctataaaagg gacccttagg cgcattggagg agcacaccaa gcattcctac 360

aactcttcta agcaccaaga catcaatctc acgcattcgt ttcattgtga tagcatatag 420

agctcttggt gagttg 436

<210> 55920
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F1

<400> 55920

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 gaaccaaaca ccataagtaa cccgagttag ccatacaccg gttgcaacca tggctaacca 180
 tagaccagta gcccattgaa ggcacctggc gagccaaaca ccacctgctg atgggaaacc 240
 tgtgacgaac caaacatgag tagcatatgg aagatccctg atgagccaag taccagcatg 300
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 ac 362

<210> 55921
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F10

<400> 55921

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 ctcttacttc aaggaacttc tgagtggcga caaggagggc cttcttcagc tcccaagtga 180
 caaagccctg ctgagcgacc ctgtcttccg ccctcttggt gagaaatatg ctgcagatga 240
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 tgatgcttaa atgggtccata tcctggagcg ggacacaaac tgctggctgt atggactcgt 360
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<210> 55922
 <211> 402

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-007-Q1-K1-C10

 <400> 55922

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 cacgaagggt atagtgttac caccgttact ggaagaatct ttgacctcaa gtgatgcttg 180
 catgggttcc atgtgcacgc gcttggcaac acctgcaacg gctgcatagc aactgggcca 240
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 taccactgga actggacagc tttagaagaa acgcttgaat atgacgatat gactgtcaac 360
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<210> 55923
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-007-Q1-K1-C11

 <400> 55923

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 tgtggagaca tgatctcttt gaggatagca tggtagcagc tgggctttct gggatagaat 180
 ctggaacaaa gctttacatt tcaaatttgc actatggagt gacaagtga gatctacagg 240
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 agcgatataa taatatgcgc cttgatggga 390

<210> 55924
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-007-Q1-K1-C12

 <400> 55924

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tgctgcatct gcttcgacca ggcgtgcacg atggagggtgc atgactgctg gcaccagatg 180
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gttccgttgt cagacttgcg cgattggcag ggcagcatct tgcagctggg cctgggtggc 300
cgggcaagca gctacgacgc ggacaccgtg aagtcggcag gtgcagcagc tgctgccttc 360
taccgcagc ttgttcggcg gc 382

<210> 55925
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 55925

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accacccttc ttgcgcgtg acggcggcaa aggctgggtg cctggcgccg gacctggagc 180
tgaagatctc gaccgcccgg cagagcgagc accagcagca ggtccagatg gggccatcgc 240
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gacatgaccg gcaaagacgg cggcgggttag tagggaatat cctgctggta ggagaagagc 360
ttttgcccac ctgaagctgg agaagggttg ctcaaaagat aggacggngt gggaaaactg 420
aaaagaggaa gctttggcag cgtgtgcntg cgtgtgtgtg 460

<210> 55926
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C3

<400> 55926

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aactaacaaa tagttgctcc cgagaatcca tgattttaac cattatgaac tccataagag 120
atttaccaga cttggagtta gagaatataa ggagtcaact gctgcgtgat ttctcccctg 180
atgacgtgtg cccaagtagc gtcactttc ttgaatcacc tggcaagatt gcaccgtcat 240
gttctgatga tgacaccgac tacgactatc aagaggctga acttatcgat ctgagaaatg 300
acaacaatac ttatttggaa gcctctgcaa ctacactggc ggctatagct attcctgtgc 360
ccacaacaaa tcttctcagt atcgatgaac ttctagaaac agtcgtgaat gatgtgtcat 420
c 421

<210> 55927
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C4

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ggcgcgtcgt actctcccct gagcagttcc gcatcctccg cctcaagggc accgagttac 180
ccgggacagg agagtacaac aaattctacg gcgacggggt ttataactgc gctggctgcg 240
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ttgaggggct tccaggagcc ataaaccgaa caccagatcc tgatggtagg agggtagaga 360
tcacatgtgc agcctgcggg gccatctggt gccatgtgtt caagggtgaa agcttcaaga 420
cacctactga tgagcgccac tgcgtgaata gcg 453

<210> 55928
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C5

<400> 55928
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gtaggtacca caatgagatt gtgatgctgc acatggcaca tcaaggtgca caagatatgt 120

accgtagaaa ttatcgtaaa gtgcacacag ctgtatgtat agatgttttag aagtggccga 180
 agttaggctt gctcaaccgg ggcaatgatt tacttagcct gctgaaatgt actataggta 240
 gcattcaagt ttgtgaccat catgcaagta catgtggggt tgttgaaatt gagtgggtcat 300
 cggagatgta gcaaaatggt ccctatcgag agctcgtgta ctatatttgt tttatgaact 360
 taatttttat tacaacaaat aaaaaattaa ttcaaaaaat aa 402

<210> 55929
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D10

<400> 55929

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 cgtttccagg tgaagttcaa gagaaggcgc gctggcaaga cagactacag ggccaggata 180
 aggctgatta accaagacaa aaacaagtac aatacaccca aatacagatt tgttggtcga 240
 tttaccaaca aggacatcac agcacaatc atctctgcta gtatagcaag tgatatgggt 300
 cttgcttctg gttactcgca tgagttgcc a gatatgggc ttgaagttgg tctgaccaac 360
 tatgcagctg cctactgcac tggccttctg ttggctcgcc gtgtgctcaa gaccctgggt 420
 ttaga 425

<210> 55930
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D11

<400> 55930

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 gggagtagac tgggaggacc agaagagtga agaccgacat gacctatgca tgcttgatgc 120
 gaatggaaac gtaaatacgc acaccgtcta ctgaagggat agactacatg taccctgatc 180
 aggaatgatg caccaatacg ctgacctatg caggccaatc gaattcagat caacctatgc 240

atctactatc acggacatca caaggcatat catctctgct agtatatcaa gtgatatcac 300
 taccggttgt gcatacatag ctgaatagcc acgatatgct attgaagatg ctgttaccaa 360
 ctatgacgaa tgggtact 377

<210> 55931
 <211> 109
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D4

<400> 55931

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 tgttacggag aacgaccaac agcgaacaca agacaagcgg atttgttgc 109

<210> 55932
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A5

<400> 55932

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 agtctgttta acattcgatt tcacttgctc caaacgaaaa atgcgatcca atgttcgtgc 180
 gatttctgtg taaaactgtt atacttttaa ctgtcctcaa ctatccattt ttttatatat 240
 aatgtcttgg tggt 254

<210> 55933
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A7

<400> 55933

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 gctgagaaca gagtagtttc ttacgaggct ggcaaggccc ttgctgatga catcggaata 120

ccattccttg agactagtgc caaggatgca acaaagtgtg agaaggcatt catgaccatg 180
gcaggggaga taaagaacag gatggcaagt caaccagctg caagtgggtgc tagtaggcct 240
gcaactgtgc aaatgcgggg tcagcctgtt tctcagcaaa gcagctgctg ctcttgatcg 300
tctgtctaga tcacagtagt gtgattgtgc agcaagcaaa acttaaattg gttgctccct 360
gtacattaag cctattactg tcccaaagaa ctogatgtta tctatcggat actgg 415

<210> 55934
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A8

<400> 55934

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caaaggccgc cgctgccaaag accaccgccc ccaagccggc caaggccgcc gccgccaagt 120
caaagaaggc agcggctgcc aagccaaaga aggcgctgct tgctgggacc aagcgcaaag 180
tgcccagaaa gaaggctcgt gcgaagccga agaagtcccc cgccgccaag gccaaaggcca 240
agccgaagac cgtgaagtcc cctgcctcca agaaggcacg gaaggcctcc gcatgagatg 300
ggttgcttta ggtctaagct ctgattgtgg ttggtgtcag ttaggtactg tacaaactaa 360
gtgtgtgccc aaagtgtctc aggcgggtgtg ttatgtgctt agcaagttct atctatcaga 420
gtgttttagt ttaa 434

<210> 55935
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A9

<400> 55935

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tactcaaaca aagaagaaga atatagtgcc aaagttcacc gaaatcttgc ccgtggagga 120
cacggcctac ccttacagcg ccttcattcac ctccgtccgg aaagacgtga tcaaatactg 180
caccaaccat acaggcatcg tccagcccgt gctgccgctg gagaagaatg tccccgagct 240

ctggttctac accgagctca aaacgaagac caggtccatc acgctcgcca tacgtatgga 300
 caacctctac ctggtcggct tcaggacccc cggcgggggtg tggtgagagt tcggcaagga 360
 cggcgacacc cacctactcg acgacaaagc caagtggctc ggctttggcg gtcggtacca 420
 ggacctcatc ggcagtaag 439

<210> 55936

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B1

<400> 55936

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 gatctgagcg ctgcgtccg tgtcgtcgct cgaatccgcc atgaaggggg ccaaattccaa 120
 gggcgccgcc aaggccgatg ccaagctggc ggtgaagagc aagggggcgg agaagcccg 180
 caagggcagg aaggggaagg ccggcaagga cccaacaag cctaagaggg ctcccagcgc 240
 tttcttcgtg ttcattggagg aatttcgcaa ggagttcaag gagaagaacc ctaagaacaa 300
 gtctgtcgct gcggtgggaa aagctgtgtg cgacagggtg aaatccctga gcgagtcgga 360
 caaggctccc tatgtagcca aggctaacaa gctcaagcta gagtacaaca aggccatcgc 420
 agcctacaac aagggcgag 439

<210> 55937

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B10

<400> 55937

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 gaaaaaatac gagaggagct cgggtggaaag taacatcaag cttgtggctc cagcgctccag 120
 aggatgcgtc actgatgagt aggctgtgtt acattctgtt cggttgcgca catgatgcgt 180
 tttcaatcca aggctgtttg ccaggaacaa ccatgtgtt agagtgactc atgatagcgc 240
 agtttgcgta tggcaggat aataataaaa tgcccgtttc tattagctca gcaatgctac 300

agaatctgct gaataatcga ccgtaatatg tctgtttaag cttgtgagca atcacatcct 360
 tttcagtctc tcacttgctt tgcttgcccc attgcctcta ctaccttgt 409

<210> 55938
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-B12
 <400> 55938

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 cggctgcac actaccaagg agcttgaac tgtgatgcgc tcccttggcc agaacccac 180
 tgaagcagag ctgcaggaca tgatcaacga ggttgatgct gatggcaatg ggaccattga 240
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 gcttaaggag gcctttcgcg tcttcgacaa ggaccagaat ggtttcatct cggctgctga 360
 gctccgccat gtcatgacca acctcggcga gaagctgact gacgaggagg tcgacgagat 420
 gatccgtga 429

<210> 55939
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-B2
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 ccaagacggc cgagaacttg cgctgcctgt gcacgggcga gaagggcctg ggctccgcgg 180
 ggaagccgct gcaactacaag ggctcggcct tccaccgcgt catcccaggc ttcattgtgcc 240
 aaggctgcga ctttacgccg ggcaacggca cgggcggcga gtccatata 289

<210> 55940
 <211> 368
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B3

<400> 55940

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aaggcctaatt tatgcgctt tagctctttg gtcagaactt gagactcatg tgttaaactc 180

gacttgctaa agacttgatg gctactttgt gcttggttga ccagctataa tcagaagatt 240

gaaatcttct caaaaaaaaa agcacagcaa cgggcagaga gtacatatac tgcgccagga 300

tcgtctacta aaactgtaaa actgcgcaaa aaagggccgg ccgtgttcag gatccaaaat 360

tccgtacc 368

<210> 55941

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B4

<400> 55941

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ggctacagtg gcggactcgt cggccccgac gagagtgatg atggcatgga acgagtagtc 120

gcttaaggag tacatgcact cctgcatcag ctgtcgcaact cgctactact ggacgctatt 180

caagctcgta cggccaacc ctgtgggctt tcaactgctg ttcgtccacg ttcattgtaca 240

cgacgaggac tgatttgatg acatggatag catctatgct tcgccggagg actttcacca 300

aatgaagcaa agagacatga taagagggct tcatgtgctc gactactttg gaaaccaatg 360

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<210> 55942

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-007-Q1-K1-B5

<400> 55942

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 cggccgcaag gagtgtgtgg atcttctttt gaagcacggt gctgctgtaa ctctccaaaa 180
 cctggacggg aagacaccta tcgatgtcgc caagctgaat aaccaggacg aggttctgaa 240
 gttgctcgag aaggacgcct tcctttgaat accatgcctt tcgtatacac ttggactctt 300
 ggtgtcatgt ttttttttca taccggttgt ttttgtctgg atagccacat gtcattgtcc 360
 ttaaactctng tatgcctaaa tgctattagc atgtgggtgt tcgaactggc ctgtaatggt 420
 ctaccgttcg tgacttgggt tttccactcc atttctgata c 461

<210> 55943
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-B6
 <400> 55943

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 cggccgcaag gagtgtgtgg atcttctttt gaagcacggt gctgctgtaa ctctccaaaa 180
 cctggacggg aagacaccta tcgatgtcgc caagctgaat aaccaggacg aggttctgaa 240
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<210> 55944
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-B7
 <400> 55944

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aacttagtag ctcagcatcc aaactttgat aatatcactc agttgttcag cttcaactac 180
aaaccactta ctccatatgg tgggtggcata aatgatacgg caatgttctg ggggtgtaaaa 240
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ctccgcaagg actccccggac ttctactttc gaaaagggat gggctttccc acgccgagtt 360
tacttcaatg gtgataattg tgtcatgcca tctcctgaaa attatccatg gctgccgaat 420
gcaagccctc taacaaaacc attggcactt ccattctttg 459

<210> 55945

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B8

<400> 55945

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tcaaagtgtc gtccaggatg caaacatgtc cagtgcact gatatgagta aggtgtttga 180
agacagaacg tttgtgtcat ctatccttaa ttcgcttccg ggtgttgatc ccaatgatcc 240
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cacgtcagac ataacagacg acgagaagaa ctgatgtagc catgttcacg ccttcatgcg 360
caciaaagaaa ttgaagaccg gtctgcgttt actctctagc tctgtgga 407

<210> 55946

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-007-Q1-K1-B9

<400> 55946

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aagtcgacca gtggagctct ttggaagtac atcaagcttg tggctccagc gtccagagga 120

tgcgtcactg atgagtaggc tgtgttacat tctgttaggt tgtgcacatg atgtgttttc 180
 aatcaaaggc tgtttgccag gaacaacccat cctgttagag tgattcatga tagtgcggtt 240
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 gctgctgaat aatcgagcgt aatatgtctg ttttaagcttg tgagcaatca catccttttc 360
 agtctctcac ttgttntgtt tgtcccattg tttctactac cttgttcaca gagatgatc 419

<210> 55947

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<212> DNA

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<223> Clone ID: LIB3088-007-Q1-K1-A4

<400> 55947

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 gttcatggcc atgcaagaaa tgaaataaca tgccaaatgt acggctgagg gctgacaaca 180
 ctaggaatat tgttaaacag gaacactgag tttcttgtga ggatgtcatg atagcttttc 240
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<210> 55948

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-H1

<400> 55948

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 atttgaaact cgtgatccat tcctcattcg ccaggaacgt gaaaatccaa cgctgactga 180
 gtgggatcgg tttgcgcata gagaatatat tagattgtcc atggaagaag atggtgaaga 240
 tgcttcaaat ggaagtgggt atgtgtggga cgaatcactt gaggtccat tctgaatggc 300
 atcttgctgc acgaatttgg ttgaacatgg gtgattatgg ttgtgaagcg gaagaattgt 360
 gaagtctggg gctacagtgc 380

<210> 55949
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-H10

 <400> 55949

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 cagatgctcg tcaacgccgg cggcatcttc gagaccaccg tcttcccgcg ccagtacgcg 180
 ttcgagatgt cctccgtcat ctacaaggac tggaacttca cagagcaggc tctccctgac 240
 gacctaatac agagaggcat ggcggtcgca gaccgcgcga gcccgtaaa ggtacggctg 300
 ctgggtggagg actaccgcta cgcgtcggac gggctggcca tctggcacgc catcgagcag 360
 tgg 363

<210> 55950
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-H11

 <400> 55950

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 acatgaactc caacgcgcgc cagatgcttg tcaacgcctg ctgattctta gagaccaccg 180
 tctttctgtg cctagtcgct tatgagatgt cctcggtcac ctacaacgag ctggaacttc 240
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<210> 55951
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-H2

<400> 55951

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tcaccggcaa cccgttccac gactacacgg acgtgctcat cccggccttc atcacggcgc 180

accgcgtccg cggcgaggtt cagttcctgg tgagcatcta caagtcgtgg tggatgaacc 240

gctacatcca gatcttcag cagatgatcc ggcacgaggt ggtggacatc gacgcggacg 300

actagggtccg gtgctacc 318

<210> 55952

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-H3

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agctcatggc tagacacagg ggggatatgg gaaaagagga gctctgatcc ctgatatgaa 180

tcttatgcta acattcaggg ggacgatgta tatgaaacaa tccaaaatct gaatgcaggt 240

gaacagaagc tcattgtatg gactcctgaa tattaacagg actgagctcg acgctaggac 300

acacatgctg ccagaacgtg agtcctcaat cataaagctg gagcatgcc aagaaagcat 360

tacctggcaa ac 372

<210> 55953

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-H4

<400> 55953

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tgcgcatgcc tgtgatcaag gaacggaacc acgacgggac gctagacttc tggctcataa 120

ggaaggtcac cagggccttg aagctgaaca aggacatcaa cgctctgtac catgagggcg 180

cctacatgggt cactgccagc tacttcaaca acggggacaa aatcatctac accgtgcagt 240
 cgcaggaaca caccaccacg atcggcgaaa gaagcctacc gggctctcgca taggctgcac 300
 gcactactcc atgctccgta catcctcgag agatctgaga gagacc 346

<210> 55954

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-H5

<400> 55954

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 tctcatcaat tgccgcaaca acaagaagct gcttggccgg gttcgtgctt ttgatcgcca 120
 ctgtaacatg gtgctcgaga acgtgcggga gatgtggaca gaggtcccca agactggcaa 180
 gggcaaaaag aaggctctgc ctgtgaacaa ggatagattc atcagcaaga tggttcctcag 240
 gggcgactcg gtcacatcgc tgctgaggaa cccaagtga ccgccaacc ggaagccagg 300
 tctctgttga aaactgtagc ttatgatgta tgttggggat gattaaggcc ttgttcgttt 360
 acgtcggatt gcaaccggaa ttattccagc ttattcaaag ttatatt 407

<210> 55955

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-H6

<400> 55955

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 aggccggatt ggagttccaa ctggagaaat cattgaaaca atttcgtgaa gtgcaggctcg 120
 aagcagaaag gaataaagct actcgcagat cagcatcgtc gtgggaagaa gatactgata 180
 tcaaggcatt agagcctctt cctctacatc atcggcacat ggcaacagca aatcatcagt 240
 taaaaaggc tgcgaagctt ttagatacag gcgctgttcg tgcaacaaga tttttgtggc 300
 gacaccccg tgcacgagtc agcgtgctat tctatctggg gttcgtgcat ttgttcttga 360
 tgcacttggt ac 372

<210> 55956
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-H7

<400> 55956

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 gactcagaga tggatagata atcctgctac cagaggcagg gtcctactag ctgatctgtc 120
 atctaaggct gaaattttgc ctgtttgtct tgtcaatgag gtagaccatg agaaaggacc 180
 tgtacatttc acttatacta atcaggtcaa atacttgagg cctctcagtt ctatgaaaaa 240
 gttgcagggc tgtggatgcc agagcgtttg cttgcctggc gacgccagtt gtgcttgtgg 300
 acaacataat ggaggcgatt tacccttcag ttcacacagga ttgttgcac gccgcaaacc 360
 aatagtctac gaatgtggtg aatcttgcaa ctgttctac 399

<210> 55957
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-H8

<400> 55957

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 agtacagaga gtagccttac gtagcgaagc tcagagcaag cgagggtagc gtcaaggggg 120
 gtgatggcgc tgtctcgacg catggcggct cccgtcctcg tctcatgct cctcctcgtc 180
 gccacagagc tggggacgac caaggtggcg gaggcgaggc actgcctgtc gcagagccac 240
 cggttcaagg gcctgtgcat gagcagcaac aactgcgcca acgtgtgcca gaccgagaac 300
 ttccccggcg gcgagtgtaa ggcggagggc gccacgcgca agtgcttctg caagaagata 360
 tgctagtagt agcc 374

<210> 55958
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-H9

<400> 55958

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agggtcccaca aatcaaagca cacgcatggc acaaggtatt ccacaaaagg atgccgccag 120
aagctgttga tctggtctct cggctactcc agtactcccc aaatctgaga tgcactgcta 180
tggaggcact tgttcaccca ttctttgatg agcttcgaga tcctaatact cgccttccaa 240
atggtcgctt tttgccacca ctattcaatt tcaagcctca cgaacttaaa ggagtcccat 300
cagacattgt cgcgaaattg attccagaac atgcaaagaa gcaatgctcc tatgttggat 360
tgtgaaatg 369

<210> 55959

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-007-Q1-K1-A1

<400> 55959

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catagtttga aggaagagta tgagaaaaaa cgtgctgagg aggagaaggc taaggaagag 120
cgtgatgcaa tggttcaggc aaagagggag caccgggaga agtctgaggc gaagcggaaa 180
gaactgaggg agaagatgtt caagaagaca agatctggcc aacctgtgat gagataccgg 240
atcgagcatc tcttgagac tgcactgagc aagtaacacg atacgtgat accaacctcg 300
ccttttgaga ccaaagtgtg ctaccaaatt ttgtagctcc gtgcaaccat ttgtttactg 360
taaccgtctt ttgtcgcttc atcngtgtac atatctttgg atttgntgat cata 414

<210> 55960

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A11

<400> 55960

aaaaaacata aaaaaacaca aaaaaaaaaat taaaaaaaaa aaaaaatata taagggaaga 60

cctatatatg aattaaaagg agttattcta tcgatgtcac aagcctatag aaaactgaca 120
 agtgtcagtc ttgatctacg actccctgcg atcatactcc tgtgactgct ggtagtgct 180
 taatgcagcc tgtcaaaactt cttgatgccc ccactaatac aaggatcatga ctctggaaaa 240

<210> 55961

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A2

<400> 55961

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 catagttgga aagaagagta tgagaaaaaa cgtgctgagg atgagaatgc taaggaagag 120
 cgtgatgcaa tggttcaggc aaagagggag caccgggaga agtctgaggc gaagcggaaa 180
 gaactgaggg agatgatggt caagaagaca agatctggcc aacctgtgat gagataccgg 240
 atcgagcatc tcttgagac tgcactgagc aagtaacacg atacgtcgat accaacctcg 300
 cattttgaga ccaaagtgtg ctaccaaatt gtgtagctcc gtgcaaccat ttgtttactg 360
 gaaccgtctt ttgtcgcttc atcgatgtac atatctttgg attcgttgat cata 414

<210> 55962

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-G7

<400> 55962

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 agttgacaga gccaaaggaga tgctcggcac gttcagcccc cagctggagc cctacacgta 120
 cgtgacgccg gaggacacca ccccgtcggg aatgtttgcc cgggggtcct actctgccag 180
 gaccaagttc ctcgacgacg accgcaagtg ctacctggag atcaactaca ccttcgacat 240
 ccgccgggag tggccgtcga cgagctgacc atccttccct ccctccatcg gtggcctgag 300
 cagaccagtc gtttcgttct gagttcttcc ttttctgtgt tgctcgtcc tgtcctgtcc 360
 tgtccctagg tttttt 376

<210> 55963
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-006-Q1-K1-E7

 <400> 55963

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 ctcttggggc cggaggcggc ggccggcgcn gcgtgtcttc gaggccggct ctgaagacgg 120
 accagttcct ccgcaccgtc gcgccacagc atcatcggca ggaagtgcag ttcctttcct 180
 ccgaccataa gaagcctcag ccccggccgg ctcttgacc accccttatt ggcgcagagg 240
 tccatgggac gatcgatgga gctttcgatt ccgggtacct catgacggcc gtcgtgaatg 300
 ggcagctctt cagaggcggt ctgtttgctc cgggacctgg ggttacggct ccgagaccga 360

<210> 55964
 <211> 124
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-006-Q1-K1-E8

 <400> 55964

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 aaaaaaaaaa aaaaaagggg aaaaaaaaaa aaaaaataa aaaaaaaaaa ggggaaaata 120
 aaaa 124

<210> 55965
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-E9

 <400> 55965

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 atgagttgga agaagctttg aagaagtatg atatgggcga tgaggcaaca gttaaagaaa 120

ttattgctga agtagacaca gatcacgatg ggagaatcaa ctaccaggag tttggttgcca 180
 tgatgaagaa taatagcccc gagattgttc caaatcggag gcgcatgttt taaggctcat 240
 ctctacatt taattggaaa aaagaaagac ttctaagata tttttttccg cggtcagagg 300
 ggagagcaac tgatactcga aagtgggatt cagcctgggc atatgtgcaa tgatattaca 360
 gactttggac aagtcatcag tcatgg 386

<210> 55966

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F1

<400> 55966

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 aaaaaaatcc ggtcttccct tctcggggtg tcttgccctt tttccctctt ctttcctacc 180
 tccttatttt cttttcattg cccccctttt ccttactccc cccctgttaa accccttgcc 240
 ttcctttaat aaccctcctt ttcccccatc catctttctt tcatatatat ttcctctttc 300
 accccccccc cttttctccat tctccccctt cttttctctc tttttccttt tt 352

<210> 55967

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F11

<400> 55967

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 ttaaattctag tcgctgttgc ctgctttttg atttcacttg attccttctc tgggtggtacg 120
 tgatggctct ccgtttcttg tatgcatgta tgtatgtatc atcacagttg tgggtgcttc 180
 tctggcggcg aaaccgag atagatagat tcagtgttgg accgagaacc atggatggat 240
 ggatggaaca tgcattgcca gtgattgttt gcgccggtga aagttcaatt tgtccggtat 300
 tttttctctt gaaatagtat atgttttttt ttctccatcg gtgagccggt gatcttgtca 360

atttgtacaa taatcattat atg

383

<210> 55968

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F12

<400> 55968

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caaggtagca aatttggtgg cagtactaca agttggagtt ctgttggcag catatttgggt 120

actatcgact tgagtggcaa tcaacaaagg ggcagcatgc catttggttag tcacaatggc 180

tctctggagt ttatgaatta gcaaaacat gggccacgcg ctacaaaatc gaagatacaa 240

ggcacagaga acacctcagg agatgagaga agcgagaaaa ttgttcctct gattgatagc 300

gaactgtaca atcactctga ttttataacc gagtacaaag atgccaaatt ctttgtaata 360

aagtcctaca c 371

<210> 55969

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F3

<400> 55969

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tggtcaggtg ttctggcctg gtattgctga tcgggaaagg gaggagaaat acattaaaaa 120

gctggataag aagctcaaga acaaggtgaa gttacttgaa aggcagaagt ctgggttacia 180

gcagaagccc ctgggacaat gaccatgact gaagagctaa caattcaaga tttttttcct 240

tgccacgtcc ggtgcatgca tgtggaagag ttggagcaca aaaggcaccg ctgttgtgaa 300

tacgcattct ttctacgcct cattgatctc cctctccaaa gatgtttggt gagtctggag 360

gatattgtca ggatggaaaa gcaccaatct tttcctgttc gta 403

<210> 55970

<211> 200

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-F4

 <400> 55970

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 ggagtttttg tgaggaagag cttgctcatc atcatggtta ttggactctt tactggcggg 120
 gatatatata atatatgtat gtataaaaaa aaaaaataaa aaaataaaaa taataatata 180
 taaaaaaaaa ttattaattt 200

<210> 55971
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-F6

 <400> 55971

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 caagaggtta tgcaagctca gaatgagctt tgtcaagaag cccaagcgtc gaatgctccg 120
 ggtttaagca taatttttggg ttgggtggag cggatgatca tgggagcggg caccaccaga 180
 tccagttata tctcggaaga tcagaaaatt gtagtccctt aactgtgcct gcccttgtga 240
 gtgactatgc aacatcatctt ttcgaaggcg agagctatgt atggtttctt tttttttact 300
 ttttttttggg tgatgccctg gcgactccgg tgatgtttga tgcaacacct tgcattccat 360
 tatagcacia taacgcacca ttttactgaa ttttaattac acttggggggg agggg 415

<210> 55972
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-F7

 <400> 55972

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 aggaaattga gataggcatc aaaccaaaga ggatttagag attgcaggat gcaagtggta 120
 gagctaggga acttttagag tttctggtaa ccattttatc tattgtagta ccttacaat 180

taggatatgt tacatagttt catcttcgct aactgcatat cagttaagtt aataactctg 240
 ttggtttcaa gcatttgcaa taagtacagt ttacc 275

<210> 55973
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-006-Q1-K1-F8
 <400> 55973

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 ccgtcgccgc gctgcaggag gcgtccgagg cctaccttgt cgggctcttc gaggacacca 120
 acctctgccc cattcacgcc aagcgcgtca ccatcatgcc caaggacatc cagctcgccc 180
 gccgcatccg tggggagagg gcctaggcgt cgtcgcggtg gaggtggaag tagtagtcgc 240
 agtttctgtc atcactgtct ggctagaagt ttagagatg tgccggttta ttagtttgg 300
 gttattggtc gaatcattat gtagttgggt cttcactgct gtaatttaac tatgactatg 360
 caatggcaat gaagttctcg gttatcactt cccg 394

<210> 55974
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-006-Q1-K1-F9
 <400> 55974

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 ccggtgcaat gggaaaccac tggttaagaat cttatgggca aggggcttga gaaaagttat 120
 gaactcggac ctggaaaggt tatagcaggt attctcaaga ggatcaacaa aggcactagc 180
 attgagaaca tcggggctta aacgtctggg atctgaagaa ctcttgatgg aaccaagtta 240
 cacagcagag gattgaaaca tgccattatt gtggaacgat gtttccactc agagttaccg 300
 tttttttacc ttagtggttg aattttgatc ttgatgtaaa attgacatga aacacatatg 360
 gttaatgatt ttatgaacag tgtaattttc aca 393

<210> 55975
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-G11

 <400> 55975

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 caaaaaacat cgaccaggat ggcattctcca acccgtcagg caccggcacc ggcaccggca 120
 ccagcaccgc caccgttcct cgttactccc atcatgctga tgctgtggct gctgctcgct 180
 tcatcgaca cgcgcggcgc catggccgcg ccgcccaaca cggaggcgct ctcggtgctg 240
 tgcaatggcg cgtcctacgg cgcgggggac cccttcgca cgagcctggc gtctgtgctg 300
 tcggagctgg tgtccgccac gccggtcggg gcaggccacg acttctacga ca 352

<210> 55976
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-G12

 <400> 55976

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 gttttgctgg agatgatact catgcgggat gcggacagcg gcgagacggc tctgttgag 120
 gtgtttggtc ttatgtccta cacctgcgtc gaggtgatct aggagctggt tgaagagacg 180
 gttgatgctc tactgactga ctgctaacga gtgatacttg ctgctgatgc taacactgct 240
 ccataatac actcctaaag ctgggatggg tgtctttgcc ttggtcacat tttttgtttc 300
 gaccggcat 309

<210> 55977
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-G5

 <400> 55977

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aatgctgtca ttcattctaga gtcaatTTTT ccatgcgaaa agcgtattga ttttttagac 120
 tcacttgtgg agaagtttgt tacacctgaa tcattctcagg gagaggtggc aagtctagtt 180
 gacaaagagg aaatatcttc catatTTTT gagtttttgg atctctttgg ggctgttggg 240
 ataagtata ttttagagta gttaatacta gtagctaggg tcaggattta catgtttatt 300
 tgcaatatgt cgacgcaaaa ggattcgggc tttatactga taataaacgg ctattgattt 360

<210> 55978

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-G6

<400> 55978

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 aaatgctgtg attgctgtga aatcaattct ttcattgcgaa aagcgtattg attttttaca 120
 ctcaattttg gataagtttg ttacacctga atcatttcag ggagaggtgt caagtctact 180
 tgacaaagag gaaatatctt ccatatTTTT agagtttttg gttctctttg gggctgttgg 240
 aataatttat attttatagt agttactact aatatctaag gtcaggattt acatgtttat 300
 ttacaatatt gtctatctca aacgattcct gcctttatac ttgataataa a 351

<210> 55979

<211> 217

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-006-Q1-K1-C7

<400> 55979

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 ttgttatttc ttgtaaatga ttctaggcct gaaatgaaaa aaaagacatg cagttcattg 180
 tcagtacaat tccagtggct actgtggact tagctca 217

<210> 55980

<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C8

<400> 55980

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ctcggcgggc cagctggtga ctctcgggct atcactcctc tgcgctgtcg ccggccccggc 120
cgccgcgcag aactgcggct gccagccaaa cgtatgctgc agcaagtttg gctactgcgg 180
cacgaccgac gagtactgcg gcgacgggtg ccagtcgggc ccgtgccgct cgggcggcgg 240
cggcagcagt ggcggcgggtg gtgcgaacgt ggctagcgtc gtcaccggt cctttcttcaa 300
cggcatcaag agccaggccg ggagcgggtg cgagggcaag aacttctaca cccggagcgc 360
gttcctgagc 370

<210> 55981
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C9

<400> 55981

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acatgtctcg aatgccagca accacatata acaaggcgtg agcgcgctcc agaacgcgaa 120
gaagctgcag aagaactcga ggaagtggat gtgctacgcc atcatcctgc tgctggtgat 180
agtggcggtc attgtcgtcg cggtcatcca gccatggaag aagtgagcct aggggtggctc 240
taaacagggg ggagggcgtg ggagatactt ttttttggct gtctgtgtaa tatctgtgca 300
gttggtgggg gtggttctgt gatttatggg tgtacttatg gtcggcacca gagaagcttt 360
ggtatttcca ttctttct 378

<210> 55982
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D1

<400> 55982

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ctacaggagc tacatcgccc agctgaagaa ggccatagac caggagcga acgtggctgg 180

ctacttcgcc tgggtctctc tcgacaactt cgagtggctg gcaggggtact cgtccaagtt 240

cggcatcgtc tacgtggact tcaacacgct cgaacgccac ccgaaggcgt cggcctactg 300

gttcagggac atgcttcaga agcattgaga tctccagagc cgagcctgag cacggaaggt 360

accatthttgt tcagcttcgc ctagtgtttg gga 393

<210> 55983

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D10

<400> 55983

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atthtttctgt tgatgtttgc aggttatthtt tccagcactt gacatttcgag tgaaaaatgt 120

cgcaggggaca tattctcttg aacataaagg agaaaatgat ctcttcgcac atcagacaag 180

gcttctactc tttcagaaga aagtcatttt taggagaatc gtgaacaaaa tgaccagatg 240

tttaggcctg gttggaagga cattthttcga atgaatcaga gtgagctcga ggctgagatt 300

tgaaaaggtc tctcgagatt ctactcttga tccaaggagg aaggcctatc tgatccaaaa 360

tctcatgacc agccgttgga tag 383

<210> 55984

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D11

<400> 55984

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ctgttgaaat aaacgacgaa tcaagagggc gtccattcca aaaggccaag attgagataa 120

tcttgggaaa gagcgacaaa tttgatgagc tgatggccgc tgctgcagaa gagaggggcg 180
aagtggaaga tggatgaagag caggcttgaa aacagtaccg atgacaagct gctgctgttg 240
tgctctgtta gtgttgttta atttagttta ataccgtgtg catgagatat ggcacgcgtt 300
catcaccatg gcaatgtctg caaatccatg gattgatgga tggatgttgg ttgtttctta 360
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<210> 55985

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D2

<400> 55985

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gggtacaaag agggaaatcag taaagaaaat tgcagccatg ttgtagatga tggatcgagg 180
ttaattttcc atacagatca agatcacttc tcttggagtt ggccaatggc cagcagtgtc 240
tcgatcatct actcctgata atcaggatgt gctgaatggg gagcttgtct tgattgaacc 300
tcagtttggt tgagatgaat tgacaagggg gcgagaagag gctatggaag gagctcgaaa 360
taagtggggt gccagataaa tgatgttttt 390

<210> 55986

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D3

<400> 55986

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gcgaaaatcg cttcgatgct caactatata atgtccgagt aatgagtga gtggaaccgg 180
tagaccgtta cactttgctg ctctcgtgga ctattgatgc cgctgtata aatgaccttc 240
gaaattatgt atatttggg ttccaattta tctgtattgc tagcctgttt tgattggggc 300

ttgctcagtt tgagctgaac atgctgggtca gcttcacatgag gctttttcat gggttattta 360
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 tt 422

<210> 55987
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-006-Q1-K1-D4
 <400> 55987

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 acgcgctcat tatcatggga ggaggatatg agctcacctt cgcctttact tgattcgaca 180
 aacttaacct ccatctcaag cgtggatgac gatgaacttg aatgtgtttc ctttgtgcaa 240
 aagattgtat catctgcttc tgggctagggc gacctgcggt tggatatggc cttcacaggc 300
 tgggtacttg ctagctgccc tatagacctt gcattgtgcg acaagctatt ggaccggaag 360
 gaggaggctg ctaaactcgag ggagc 385

<210> 55988
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-006-Q1-K1-D6
 <400> 55988

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 aaatactgtg ggggctgaaa taaacttacc aattataact attaatacat aaaagttcaa 120
 agcactttta cattaccatg accagatcta agttctaact ctcttgtaag caatcttatt 180
 gataggactc tcataccttt gttgaacttc cttaaagata cttgcatctc taataccgag 240
 attgatcatg ttctactggc tgttgggtatg actacattac catatctcca ttttaagttgt 300
 ttttttatat at 312

<210> 55989

<211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-D8

 <400> 55989

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 acagagtggg ggagtcgcgc ctttcggcct ctccacactc attgtcggct tcgacccta 180
 caccgacaag ccagcgcgtg accagaccga tccttctggt accttctctg cttggaaggc 240
 gaacgccacg ggaaggaact ccaactctat gcgtgagttt ctggagaaga actacaagga 300
 gacctccggc aaggagacca tcaagcttgc tattcgtgca cttctagagg ttgttgaaa 360
 tgggtgggaag aacatcgagg aagcagtgat gaaattatgt 400

<210> 55990
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-D9

 <400> 55990

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 cggaagcag cttgagctgg aaggtgtgga ctcttcaag aagagctttg acagcctact 120
 cgtgagccta caggagaagg gcaacagcct caagacggca actgtgtaaa actgagaaga 180
 ttgggtaccg gcgggtgaac gattttacta aataaaatgc tagcttgctg gctctcttag 240
 tttttacgat gtacctttgc tctccatttt ctgaatcggg attgtattct aggcttgcct 300
 ggccgtcatt gtgtgaccaa cgttcatggc ttgtaacaag ggatcggacg taaacggttg 360
 gaaa 364

<210> 55991
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-E1

<400> 55991

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atccagggca tcaccaagcc ggcgatcctg acgctggctc gtaagggcgg tgtgaagcgc 180

atctcggagc tcattacta agagaccgc ggcgtgctca agatcttact cgagaacgctc 240

atactctact cctacacact acacctagca cgcgcgcaca gaagaccgac accgacatga 300

gatgatctat actcgctcaa 320

<210> 55992

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-E10

<400> 55992

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aggccggagg tgtagcgagt gcggtcaggt tctgcccagag agctactagc cgtecgctcta 120

ctagtctctg accaccggga tctttggatg caccgatgac ccaaaaactt gccgaactgg 180

attgttttgc ccctgcgtgc tg 202

<210> 55993

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-006-Q1-K1-C5

<400> 55993

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cgagtgggct gggctttgca agattgactc cgagggcaag gcaaggaagg ttgtaggctg 120

ctcctgtgtc gttgtcaagg actacggtga agaactctgag ggccttaaca tagtgcagga 180

gtatgtcaag tcgcactaga tgtaacacgt ttcagtaata ctctacattt ggatctgggc 240

ttaatattat gcttgcgtct tgggcttgct aggagattag gacaatttac tacaagagcc 300

catgaggata tgagcaattt ggaattctaa atgttttgtt tatgggtgtg tcattctggtt 360

ttaattcaaa tcgataagag atgagattta anaaantaaa atatttatat tttt 414

<210> 55994
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-E3

<400> 55994

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attccaagtc tgcacttcta gcaaacaatc ttgcacgcca tcaactcagt gaatttgaag 120
ctgatgtgca gttttatgtc tgttttgctg atgcaattag ttcttaagca aatccatggc 180
aacttgttta tcgctgatgc ttgagggatg gaaatgacac tcagaataaa tatttgattt 240
gctttcttgt gatcgttgat cacattaaaa aaaaaaaga aaaaaaata tat 293

<210> 55995
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-006-Q1-K1-B1

<400> 55995

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cgacatgggc cacggcaatt tgacctcctt cttactcaa aatgggccag ctggatcaga 120
aaggaaccct gcagggctgt tcccagaata ccccgccag ttgctaaacc ataatacataa 180
cactggagca cagcagcagc agcctgcagc agtccagcag ccgcctgatg agaagcangg 240
agtccatgac caggtgaaaa gggacttgag gagccggggg ctgtgcctcg tcccgggtgtc 300
ctgcacgtcg cacttcggag gggacaacgc cgctgactac tgggccccgg cggcgc 356

<210> 55996
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B10

<400> 55996

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gaagtacgcg atgggctgac gaacgctttc ctgctcgtct gggcgccatt gttcccttg 180

atttgttgtt ggtcgtatgt atccctgac catctaggat catcgtattg tattgtagtg 240

tatgtatgtc gtcggcctac catcgttgcc atccaccata gtgagggtgg tggacatgct 300

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cgaagacggt gatttcgttg ccc 383

<210> 55997

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B11

<400> 55997

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ggagaagaaa gagaaagccg catcgtcttc ggcgtcgggtg tcagtgtctg gttcggggtc 120

aggatcgggg tctgtatcca aggatgtcgc tggaaggcgg gcgaagaggg cgcagaagcg 180

agaagctgca gataaggcag ctgcagagaa gcacctgaag cacctgcaga ggttggggct 240

gaggaaatcg ccagagcctg tagtgccgc ggaggttggg ccacaggtga atgagtact 300

taagccgccg ccgagtgcta tatggtgctg ctaaaaacac tgcagccctt tgggccacaa 360

aataatcttc cactgtgaag agcttg 386

<210> 55998

<211> 265

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-006-Q1-K1-B12

<400> 55998

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cgagactgta tatagctctt gtagcctctc cgtgtatgac aacctgtaat atatgtaatt 180
tctagattcc aatgtcccat tattctgtcc tacattcaga tcttattctc gcagccctga 240
tgctcaaaact agctttacca gantc 265

<210> 55999
<211> 316
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-006-Q1-K1-B2
<400> 55999

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tgggcatgct tctttttctt aaatgtggta tgtatgtgca agtgtttgaa gtttaggctg 120
tcatgctata tgtcagctat caaagtacca aatgcaacta ctgttctgag ctgtttgctt 180
gttacgaaac agctttccaa aaaaaaaaaa aaaaaaaaaa aaaaataata aaaatnataa 240
aaaaaaaaac aagaaaaaaaa aggactttat gtagttaaga atgaacctat aaacaaattg 300
ttctgaattt attact 316

<210> 56000
<211> 378
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-006-Q1-K1-B4
<400> 56000

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ggcgatctat caaggagggg gagggggaaa tggccganaa tccgcaactg tttgggaacg 120
ggatgccggt gccgttctac ggcgagatgt tcgtcctcgt ccgcgacggc gtcgagttcc 180
acgtcgacaa gatcccgtea gctcctggag gtcagtgtgaa aacaaaaggc acaatttacc 240
tgtccaatat aaggatggtg tttgttgcca gcaagcctgt tggcaacttc tttgcttttg 300
atatgccact gttgtttgtg catggtgaga agttcaatca gcccatatct cactgcaaca 360
acatctctgg attcgttg 378

<210> 56001
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B5

<400> 56001

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 atcacacaac tggaaggtgg agttgtccaa gtagccattg aagtggaaga ccgggcacaa 120
 cgttcagcag taacaagagt gaatgctgat gacgttcgag taacggtagc tgcccttgct 180
 gctcgagggg aagctaacag tgagttgcta gaatttatgg gcaaggttct tggcctaaga 240
 ttgactcaga tgacccttca aagaggatgg aataacaaat cgaagcttct aattgttgag 300
 gatttgtctg cacggcaagt gtatgagaag ctctagaag ctgtacaacc ttaggcatcg 360
 aagcaatgga gcaatgtggt atgcagtatg cg 392

<210> 56002
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B6

<400> 56002

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 ttaagacggg cggggggcggc agctgatcta gattaccttt acttcgtcta ccggctacgc 120
 ctgttccacc atcaacgaat cgactgcata ataccttcta ctaatacggc catatccttc 180
 acttcaaagt 190

<210> 56003
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B8

<400> 56003

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tgaagctgag gaaggtcgag agtggcctga ttgtgggtgca gctggagtgg gttcatgttc 120
ctggcgtgaa gctgtgaagg ccctgtctga atgagggctg atggagctgc agttgctgtg 180
tccctgggtt gattgttttg ttgtaaacga taccctgaac gtggtgatat gcggtgtatg 240
agtgaggttt gagtgtgatg ctttgtttgg ggtacttctt ggtgacatga tgtgggtatg 300
actgccaaag gttgtggcgc accaataaga aacgccctgt cagcatgaca gcatgtttgtg 360
agatgtaaac taagacttta gaacctaaat atacacgtga ttgggcgtt 409

<210> 56004

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C1

<400> 56004

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gctctatctg aaagatgact ctaccacagg ctgtaccaca tgttttaggt gtcggacaat 120
tgctggaatc agcactacat gtggctggcc cggttgcatg agcatctgct tcaacctcac 180
ctattacata tggtaaatg actaggcaat gagaagccct tggattgggc accacgaaga 240
agctatcgag ctggctcgtc tatggacacg aatcaactat ggacagtcct atgccaagcc 300
attacactgt ccatcattac gtcattcccg aggtgaacct tgccacgttt cgcacat 357

<210> 56005

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C10

<400> 56005

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ctctgttcaa gagccatttt aggtatgcc tttaactttc ttaagtgtac ctctgtttgt 120
ggtcattaat aatgatcaag gacttctaga tagcccc 157

<210> 56006

<211> 378

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-C11

 <400> 56006

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 accctcacc caccagtgg gcagtgcagt ggccagtcac tcactcctac ccacctgccg 120
 atcttggctg ccatggctcg cttgctttgg ttctcactca aaggaaagga accctctctc 180
 cacggtacga ccgggaccag aagcatccgc gtctgcgggg cccacactac cgtcctttgg 240
 catccggagg gccgtgcacg cctcggcgta cgacaagaac ctggaggaac aggtgcgccc 300
 ggcgttcgtg ccggacgatg tgatcggcag cgccgggagc cccgacaagt actggagccc 360
 ccacccaag accggcgt 378

<210> 56007
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-C12

 <400> 56007

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 ttatgagtcc actgacctct tacttcattt cagaggaaac gcccttcgac tgcaaagggt 120
 tcagctttat tgtggcgagt ttcttcttgg caatctcggt ctgcctcgct tggatgctta 180
 acccaggaat gaaggacaag ggcacaaaag ctgtcgtttc agacagcgct gatgaggaag 240
 cagcgcaagc accactactg gcaaaatgga ccagaccatg actccagctc caggaaactg 300
 agctataaag ctcagctgga gtgtgcgtaa aattgtagga tatgtgaatt agagtg 356

<210> 56008
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-C3

 <400> 56008

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cactcaagtg gaccgtggga atgttttttt tgggtgtgtc ttgtgttcga tggcaacacc 120
caggctcgtga aggcaattga taacgctatc tccggcggcg cgggtgcagc tggagctgta 180
gtgctgactt acttacttgg tgatccagac cgccgggttc atgctgctca tcttctggga 240
gctgacgcgt ggacgtgatg gagcccatct gcttgtacat gacgtacatg tacttcatg 299

<210> 56009
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C4

<400> 56009

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tataccacga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggggc gtttaaaaaa 240
aacaacaaaa aaatccgggg gaaaccaa ataaaaat ttaaaggggc caaaaaaaaa 300
aaaaaaaaat gcccagggtta aaaaaatgtg aagagggaaa aaccaggggg ttaccc 356

<210> 56010
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H10

<400> 56010

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gaacgtgtgg aagttccgga acacagtctc ggaggccctt gaggacatca cggctctgta 120
ctacgacgag gatcgcgacg agatctacac tggcaaccgg cacgtgcttg tccatgtgtg 180
gtcgagctga aagctgaaac tgcggggcgg ctttcaaccg tagcacggtg atctggtctt 240
cacctgtgcg cgtattaaca gctactagt cctcacgtgg cacgggggtg gggggcacga 300
aagaggggacc cccaagcca ctcaagtgac agttcttatt tatctcagca tgccaagagc 360
actgtccatc attctgaaat cagaggcccc ccagatctgt tgtaacggac gtaccttgca 420

agtaatgaaa tccattcggt gatctgaa

448

<210> 56011

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H11

<400> 56011

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gagcttcctc agcagcgcgc tgctctcggc tgtgtcgcac atcacggagc gccacggccg 120
gaccggctgg atcctcaata acctcaacgc ctgcgggctg gacaagtact acgccttctt 180
cgccattctc aactgcgcca acctcatcgc cttcttcttc gtgtgccggg tctacgtgta 240
caacgccgag gtatcccgcg tcgtcgacac cgggagcagc aagcagaagc gggaagtggc 300
gatgcagccg gcggccgtgg gcgcagtgga ggccacccta tagtagctac tagtgttcca 360
ttacaaatgt agctgtcata ctcatacgta cgtgaaaagc tctgcgtgta cattgcgt 418

<210> 56012

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H12

<400> 56012

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tccaccgcac tctcctggac cgtggccatg gccatggccg acgcgtcccg atcccgggcg 120
ctgtggggcg accgcgccga cgcctacctc aggatctcca ccttccccag ggccttcttc 180
accgtgctga aggatctgaa atatgctgac actcatgaat ggggtgaagg tgagggcgat 240
tcagcaaccg tggggattac tgaccatgcc caggatcatc tgggtgatgt tgtctacgtg 300
gagctgccag aagttggcgt cagtgtg 327

<210> 56013

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-H2

<400> 56013

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acataagcaa tacatggtta tgggatcgtg ttcgagttag cgggtggtgca tatggaggat 120
tttgtgattt tgacacccat tcaggagtgt tctcatattt atcatatcgt gatccaaact 180
tgctgaaaac actagaggtc tatgatgaga cagcaagatt cctcagagag ctagaattgg 240
atgatgatgc actcacaaaa gctattattg gaaccatagg cgatgttgac gcctaccagc 300
taccagatgc taaaggttac agcagcctaa tgagatattt gctgggcac acggatgang 360
aacgccagca aagacgtgaa gagatactag caacaag 397

<210> 56014
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H3

<400> 56014

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gcggaaggcc ccaggattgt caatgctggt ggggagtgcc tcacatttga ccagcttgct 120
ctccgtgctc cacttggcga gaacacagtc ctctagaggg gcccgaagaa tgcccgtcag 180
gccgcgatgc acttcggcaa ggctactgga gtgccgcaca gccacaccaa gccatatgtg 240
cgctacaagg gaaggaagtt cgagaaggct cgtggcaaga ggaacagccg aaggttcaag 300
gtttaaaaa gttgcgggcc atcagcatatc taatcactta ctaccgagta gtagcacatc 360
ttgctgccta ggatcggatt ctgaatgata tctaaagatt ttcgtgcctt gactactggt 420
tactggatga gcaagaagac aatgttcttt 450

<210> 56015
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-H4

<400> 56015

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ccaaggttga gttgaagaag atcccaacaa caagagctcg atcaccaaag cttggctcgct 120

ccaagaacac accctcagga gggacagaag gaaattcaaa cccccagct cgttcagctc 180

gactgagtct cgatcaaagg gtcccccaaa atgggtgcaa gaaagcacct gctgcaaata 240

cggcgaagaa gcccacacgg aaatctctcc ctaaattgcc ttcggagcaa acagccaaag 300

ttgttgacat tgcaacgtct gttccatctg gagaaaagct gggg 344

<210> 56016

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-005-Q1-K1-H5

<400> 56016

cccacgcgtc cggtggaccg ccaaggagct gctggatcag tacctcaagt tcaggcagga 60

ggccgaggag ggtgactgca agaaggggag gaagaagaag agcaagaagg acaaggaccc 120

ctccaagccc aagcagccca tgtcggccta cttcgtgtac tcgcaggaga ggcgtgccac 180

gctggctcgcg gagaagaaga atgtacctga gattggcaag atcaccgggg aagaatggaa 240

gaacatgaca gaaggtcaga gggctcccta tgaagaggct gcgaggaagc agaaggaaga 300

gtaccacaag cagatggagg tgtacaagca gaagaaggct gangaagctg ctagtcttga 360

gaaggaagag caggagcata agaaaatcat gaagcatgag gctctccagc tgctcaagaa 420

gaaggagaag gcagataata tcatcaaga 449

<210> 56017

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A10

<400> 56017

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gacaaacctt tgcgcgggaa gggccaccag gcagacatcg aggagttctt gaaggtagcc 120
 tttgcgtgca cccagcctcg cgtgagggag aggcaactcca tgtacogcat ctaccactcc 180
 ctgaagagca tcggataagg ccgcgacgcc acggagcagt tcgacgagtt cccgctggcc 240
 tataacaagg acgattcgga cactatgtag ctagctgacg ctgatcaccg attggattgt 300
 gggaaatgtt ttttgtcagg ctctcgatg attatatata ttatatgtgt 350

<210> 56018
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A11

<400> 56018

gcaaaggcgc taatgaggtc agcatcatca tcgaggctta caggaccttg agggaccggg 60
 gcccttatcc tgcagatcag gttgtgagag acataagtgg gaaatttgca tttgtcctgt 120
 atgattgttc cactaagtcg gtcttcattg ctgctatgca gctgttcagt tattccgaag 180
 acatctatct gatcaaaggc tactgctacg acgtacaatg gtaccactg gtattgacag 240
 ggcaactgat aggtagctcg tgttcataaa cctcataaca ggaccccgat ggaaatgttc 300
 cgttctactg gggcgttgac accggcgggc gtcttgtggt ctctgacgac gccgagctcg 360
 tgaagagtgc ctgtgggaaa tcctgtgccc cgttcccc 398

<210> 56019
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A12

<400> 56019

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 caccatttcc agcagcctcc gcggaacgtc cagatgctgt cccaccccaa ctccctctcg 120
 gatatggcgc agcaagactc gcttgggcgg ctccgggggc tggacattgg aaaaggggcc 180
 atggctatga agccagaggc agaggtcgtg gtgggtgaagt cagagggcag ctctgtatct 240
 gcagggtgaaa gcaacaccac cttctagcta tacaatacat ctgccttcca agaagcctcc 300

gtttggttta gagttctttt gttcatagtc tgacatcctc cttccttgag ctgcttcgtc 360
 cttctcagta agcctatttt ttt 383

<210> 56020
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A2

<400> 56020

tccggcctac gacgtacgcg taaaacatgc cgaaagccac atataaactt tacatgtgcg 60
 tgtcagttac aaatatcata ccaaatttgg aagatcgga taagatctca agctatactg 120
 tcgacaagaa tgggaagaag atacagaagt tcgagtttga gaagacgacg ccaccagttg 180
 agatctgtaa cacgcttttg aaaacaattt agggccgtgc agatcgttgt tactgtctgt 240
 taacgaagat tgtcaattgt acttgatat atagctgact agctgaggat ggtggacctc 300
 tcattctcaa ttgtgcttga atttagggcg tgcaaaccgt cattagtgtc tgctgatttt 360
 acagtgtttt gatttcagtc agtataagat cg 392

<210> 56021
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A3

<400> 56021

gccacgcgta cgagcttggga actcacatgg gggctatgac ggagagagag gagatgctgg 60
 gcgtcctcac gacggtgaga tccgttgctt cacacactga catgacgtat ttctgcattt 120
 caagttcatg aatgtggcag ccagagatta tcaactgtgt tttttcccta cggctctagaa 180
 acttgacatg gccaaagtttt ttgaccgag acatcgattg ttagtaaatgt atatgaacca 240
 ccttgaggta ttttgccctca acttccaatg catcaatggg ttggtt 285

<210> 56022
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A5

<400> 56022

cgccaagatt gtaggcgggc tcgggcttga taaaaccatg tttgaagctt ccaactgcaa 60
cacctcggag tgggttcgtca gacgttatgg cccaagggta aatctctttg ttgaacactc 120
tgacgtgatg aatctggagc gcctccgggg cttcaacatg cgcagaagca actcggcctc 180
ccgttttgcc tcgccgttct tcctgatcta atgggcta atggcattccc cttcctgaga 240
tgtgtaagat acttctacat gttctcacc tcgcagagct tgttatggcc tagagatgta 300
accgcctttg ttaatgcctc gatgtagccc ccagcgagca gcgcatagca cctgttatgt 360
tgtcagcgtc gctactgata atc 383

<210> 56023

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A6

<400> 56023

gcgtccgcgc caagatgtag gccggctcgg gcttgataaa accattttta aatcttcgaa 60
ctgcaacaac tggggggggg gcgtcagact ttatggccca aggataaatc tcttagttga 120
acactctgac gtgatgaatc tggagcgctt atgggtgctt aatatgcgca taatctactt 180
gaccttactt tttgtctagc tgatctttct aatctataag tataaatgcc attccccttc 240
at 242

<210> 56024

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H1

<400> 56024

cccacgcgtc cggcaaaagc ccaacaacga ctcatagaca atctgcctga tgagtttgca 60
aagggtgcaac gggaatacca tcttccgtcg ggagattttc cttatgtgga gcacttcaaa 120
gaggtcttga gcggttacag ctttgacaag tttgagaagg tgaagcccaa gatgatacag 180

gccgtggatg atatgcttgg atatgacatt cctgaacttc tcaagaactt cagaaaccca 240
 tacgagtga cccatacagg cggttgaaag atgacttoga tctgcaacag aatgagggat 300
 tgattgtcag gcgatgtgaa tcatagtggc caatgtctct tggggcgctt attgccatcc 360
 atgcttagcc attgctatat aactttatgc ataagaatca tagagccatt gctcaagctt 420
 tcaccagaca tctgattatg taaaa 445

<210> 56025
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A7

<400> 56025

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 cacatgcaca ttcagcgagt caatcctggg atcgtgtggc ttccatactg ggctgttcac 120
 ctcaccacat ttgatggatg ttagagagcg atttcagcta gatggagaaa attttgaagt 180
 actcctggtg gtgctagaac aagttgaagc ctatttcagg ttctctcgcc tgctcgcat 240
 caagatattt tctgctgagc aggtagatgt tgctattctc gaggttggcc taggagggaa 300
 gttcgatgca actaatgtgg ttgttagttc tcgtgaatg 339

<210> 56026
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-005-Q1-K1-F3

<400> 56026

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 agatcttgac ccacaacagc aagggcacat actaccagat cctttccaac ccagagttcc 120
 ttgcggaggg cactgccatt gaggacctgt tcaagcctga cagagtgtt atcgggtggc 180
 gggagacccc tgagggcagg aaggccgtcc aggtctctca ggatgtgtac gctcactggg 240
 ttcccagga caggatctc accaccaacc tgtggtctgc tgagctctcc aagctcgctg 300
 ccaacgcgtt cctggcacag aggatctcct ctgtgaacgc catctccgcc ctctcgagg 360

ccaccggcgc gaatgtgact gangtggctt acgccgtggg caaggacacg aggattggcc 420
ccaagttcct gaacgccagt gttgggttcg gt 452

<210> 56027
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F4

<400> 56027

cgaagatatt gttccttcgt cacacaactg tgatattccg catgtgaacc gtactgagtg 60
ccagctgatt gatatatcag aggatggatt tgtgagcctt cttacttcag atggcaacac 120
taaggatgat cttagactcc caactgatga gactcttgtg gccagatca aggaagggtt 180
cgaaagcggc aaggatcttg ttgtgactgt ccagtctgct atgggggagg agcagatctg 240
cgcgctgaac gatgttggcc ccaagtaact tccctgcctt ggaatactgt atctcaaac 300
ctaaatcgaa aaaagaagtg tatcaaggat tgctacagag acattcatct ggcttgagct 360
ggcttttgcct attgcaaaca caagtgcatt gatcgctggg tgttgcaccg agtctgcatt 420
atctgtggtt acattctgga ccct 444

<210> 56028
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F5

<400> 56028

cccacgcgtc cgaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaacaaaat tttttatgga 180
agaaaatacc tattataaca caaatgata aaaattatat aatagataat tttcataaat 240
tggaataatt tgaaaaggat tctaaaa 267

<210> 56029
<211> 402

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-F6

 <400> 56029

 aagaattcaa agatattttt tcaccattta gtcaccgtaa aggaagctca gacttatgag 60
 agaccaccaa actggaagga tgaagggatt tggttttgtc aaatattcat cgcaagcaga 120
 ggagagaaaa gctgtcaagg caatggatgg caggattcta cgtggaagat tgatctttgt 180
 ggagatggca aaaggacacg aaagcaagta ggacaccctc cccacgagag gatttcactg 240
 aacatgaaac atgagagcgc catcagctta tgccagatgg caaatatccc aaattctcaa 300
 ttgatgttgc aacttatata caaagcaciaa gtttaatttta gctagcttat ctttgataac 360
 actgctacct taccatctga atggttgccg tgtattggta tc 402

<210> 56030
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-F8

 <400> 56030

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 agaggggaaat gtttatgact ttggacacac tggaagaacg cttcaactgg cttacaatga 120
 aacatgattg ggtcactagg atgattcact aggatctata attttttgta gcactatgtc 180
 ccattttcag tgctattatg tatctgttta atccttttta ctgcggtttg aacttgttgt 240
 gacattattg tggatggatt gtacctccat ctattattgc aacatgtttg gaacttgta 300
 tgagaattat gtttagct 318

<210> 56031
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-G1

 <400> 56031

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 gccaaaggcca tgtccatcat gaactccttc atcaacgaca tcttcgagaa gctggccggc 120
 gagggccgcca agctcgcgcg ctacaacaag aagcccacca tcacctnccg cgagatccag 180
 acctccgtgc gcctcgtgct ccccggcgag ctgcgcaagc acgccgtctc tg 232

<210> 56032

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G10

<400> 56032

cggacgcgtg gggccgtctt ccactgcgct tgagtccaag gtcttctatc tcaagatgaa 60
 ggggtgattac tacagatacc tggctgagtt caagactgga gctgagagaa aggacgctgc 120
 tgagaacacg atgggtggcat acaaggctgc ccaggacatt gctctggctg agcttgctcc 180
 aactcaccct attaggcttg gactggcact taactttctca gtgttctact atgagattct 240
 gaactcacct gatcgcgcct gcagtcttgc aaagcaggct tttgacgagg ccatctcgga 300
 actggacacc ctgaacgagg agtcctacaa ggacagcact ttgatcatgc agctccttcg 360
 tgataacttg accctatgga cttctgacat ctcgaggagc cctgctgaag agattagggg 420
 ggcacccaag cgcgactcga gtga 444

<210> 56033

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G11

<400> 56033

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 gcaggcagga ggcccaccgc cttgccaccg agaagcagga gctggccggg cagctgggca 120
 cagagaggca gaagatggat gagctgaagc aggatatccg ggtgatctgc ggcgacttgc 180
 tccagcggga agggcagctc acgtcgattt acaccaagtc caaggccatc atagagagct 240
 gcaaggcctc ccaggtagct actctgcttt gatggtttca atgaccgctg ttggcttgtg 300

cattttttat acataaaaac agaaggacag cattttttatg ttgagattat atccttcgtt 360
ggcggtgcaa ttataatttc atcctcagtt tttttt 396

<210> 56034
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G12

<400> 56034

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atgcgagcac cggtagcatg tgtgctgcat aggccagtgg cttgggcaga agaactggtg 120
tccagtatgc aaagcgtctg ccgtgccttc caagggctga agcattgggg atgctggaaa 180
ccccgttccg gattacaaac catccttgc tttgtctacg tacattgttc ttttccctat 240
atgcattaga tatagatcat gtctagatgt atgacgctag aacagcttgc gatttgggag 300
gaagctaaga gagtaatagt tagctgggta ataatagttc atagctaata tttgctagat 360
aactattact tggctaccta ttagctgtgc ctttcacatt gtggtacagg acaaatgctt 420
gtcagatcgt gaacaacctt ataact 446

<210> 56035
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G3

<400> 56035

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tgtgggcaat taagagtga gcggtttgtg tttttgatgt caagacctca tatcgcgcg 120
agtagctaag ctcgaccata tattggctgc cactgatgat cctattttat ttaagtgtgt 180
tggcagtttt atcct 195

<210> 56036
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G4

<400> 56036

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gtgggttggtg ttgtctcttc ttgcgattgt tgggtggtgta gctttggcat cccttactga 120
ggcctccttt aactgggctg gattttggag tgcaatggct tcaaatgtaa ccttccagtc 180
aaggaatgtg ctaagcaaga aacttatggt gaagaaagag gaatctctcg acaacattaa 240
cctattctcg atcattacag tcatgtcatt cttoctgttg gccccagtaa ccttacttac 300
agaaggtggt aaagttagtc cagcagtgtt gcagtctgct ggtttgaact tgaaac 356

<210> 56037

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G6

<400> 56037

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tgccgagggga cgacgtcgag actaggctgg agcagatgaa agaggatgcg gctaagaagc 120
tggagagggt agaggaggag aaggaatccg tcctcgccca gatggccgag ctgaagaaga 180
tactgtacgg gaagttcaag gacgccatca acctggagga agattaagag tagtactgga 240
gttgtgacaa cgtggctgtc tcgttctagt tcaggctctg tttttgttcc cctgctcccc 300
ccacagaagc gcttggcccc ctcgtgtaat ggaagettga gtctctcagt ctttcagaag 360
ctcttttcac caagaacca gaatagtttt cattctgcgg gtttatacgg attgaagcta 420
atggcgctga gcccatgaat cctttt 446

<210> 56038

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G8

<400> 56038

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atagtaagta attcacggcc aggtcattgt agactctggg aaccgtttcg gaaaatctag 120
 tgctatatct ggtggatgat tgtcaaaaac tatgcaaaaa ggcaatgcta acttttgtga 180
 aaaacataca tgtagtttta tcaaggaaat aaaaat 216

<210> 56039
 <211> 323
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-G9

<400> 56039

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 agctattggt gtaattctgt agtctgcact ctgcacaata tatntcttag tgcccagttc 180
 cagatcacgt ggtgtgatta tgcgtgggta tctagaccat atgtaaatac caagaagtta 240
 aacaaatgta ttatagcgtg cttgtttgag gaacaaaana aataaaataa ctaataacat 300
 aaataataaa agaactatct act 323

<210> 56040
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F2

<400> 56040

caaatttgct tttttatact atacctctcc tactcttaag agacctatct caatgggtga 60
 aggccctaca tttctccaat ataatccaca acatttttca cacagtatta tactttatct 120
 ccattttcta tccatatacc tatacctctt ctcaagacat atttcaaaaa taaaccaat 180
 tttataaatt caacttatta aacaagtaca attacctcta attcttatta accttaataa 240
 ttgaacccta tctccttttc aaatactaca aaaca 275

<210> 56041
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D9

<400> 56041

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gccgggtgct ggcttgcttc agtaacaatc tgctccgccg agagcctttg aagcttgtcg 120
atggggggcca gtctcagaga acctttgtat acatcaagga tgccatcgaa gctgttgtgc 180
tgatgattga aaatcctgct cgagccaatg gtcacatctt caatgttggg aatcctgaca 240
atgagggttac ggtagggag ttggcccaaa tgatgacaga ggtctatgca aacgtctcaa 300
gagaggcgcc gctggatgag cctatgatcg acgtgagttc gagtcagttc tacggtgaaa 360
gatacgatga cagtgataag agaattcctg acatgactat aatcaacaag cagc 414

<210> 56042

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E1

<400> 56042

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cttgcaaggg acatttatga gcatgctgtt gttttgagtg tgaaacttga ggaccaagat 120
gcatttgaac gtgatttctg tcagctaaag ccttattaca tggatacatg tggcataatt 180
ccccctcac cagaggagta cccaattttg ggactcaatc ttctgaggct gttggttcag 240
aatagaattg ctgagttcca tactgagctg gagcttttac ctgtcaaggc acttgagcac 300
ccttgcatca agcatgctgt agagcttgag caatccttca tggaggggtgc ctacaaccga 360
gtgttaagcg ctcggaagc tgtgccacat gagacctatg tttacttcat ggaccttctc 420
gccaagacag ttagaga 437

<210> 56043

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E10

<400> 56043

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 ggggtgaacgg caagagctgc gtggcaaggt acgactccaa gactagccac atcatgccct 120
 tctgattctc aacgccatcg gtgatacaac agtggaacca gcatttgtct gttacccttt 180
 tccagtttcg acaattatct gaagtgattc gttggaagtg catacagtgg gaaaaaatac 240
 agaatgactc ttggagcaac acacaacttg tatatgagta gaggatttcg gtcgaaagaa 300
 atcaatggat gaaacaaatt cagctt 326

<210> 56044
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-E12

 <400> 56044

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 gagggccagc acctcgccga gcacgagctt cagtcgctct gcgaatacgt gaaggagatc 120
 ctcatcgaag agtcgaacgt tcaaccggtg aatagccctg tgacggtttg cggtgacatc 180
 catgggcagt tccatgacct gatgaagctc ttcgcgacgg ggggccacgt cccagagacg 240
 aactatattt tcatgggtga ttttgtggac cgtggcttca acagtctgga ggttttcacc 300
 atcctgttgc tactaaaagc gaggtatcct gcacacataa cccttctgcg tggaaatcat 360
 gaaagtaggc agttgacaca ggtgtatggt ttctatgatg agtgtcagag gaagtatggc 420
 aacgccaatg catggcggtg ttgc 444

<210> 56045
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-E2

 <400> 56045

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cectgcccgg tgcccaccca gatggcaaac gcggcgctcag ggatggccgt ggacgacgag 180
 tgcaagcgcc ggttcctgga gctcaaggcc aagaggacgc accgcttcat catctacagg 240
 atcgacgaga agaagaagat ggtgggtgtg gagcagggtg gcgagcccgt gctcggctac 300
 gacgacttcg ccgncagcct tcccgccaac gagtgcaggt acgccatctt cgactacgac 360
 ttcgtcaccg aggagaactg ccagaagagc aagatcttct tcatcgctg gtctcctgac 420
 acggcgcgcg tgaggagcaa gatgatcta 449

<210> 56046
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-E3

 <400> 56046

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 gctcgacgac ttcaccagcc tcgacctctc cgcattctgcc gcccccaaaa gcgccggtga 180
 ggcatcgggg tcaggatcgg gaggcaaggg gccgggtgaag gggctggggc tggggcttcc 240
 ggaccccaag gtgccgaagc ggcgcgcggg gaagcagcca ccgncgaggg gcgcgtgcgc 300
 caaagaggcg cttgaggagc tgacgcgcga gacgcgggag gctgtgcgcg agctcgagac 360
 ggccactggg ggtgttcctg cactggacga tgacgccatg atggaagagt tcgtcaaaca 420
 gttcgaggag 430

<210> 56047
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-E4

 <400> 56047

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cctattgttg tatcatcacc caactcagca tctgcgcaag cgtacgtaaa tgttgcgag 180
aaggtgactc aaaggctcaa ggagttagca gaggagcgac ggatggggcc agaaatctta 240
ctttgagaaa ttcaggctgc ttttctcaca cctttccctg tttgacgcta cggcgccaaa 300
acaatgtact gataagtaga ttgctgttgg aagtaaactt taaatttcgt cactctgtct 360
gaaaatttac tcaaacaac ttctgctgct tc 392

<210> 56048
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E5

<400> 56048

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cttacacgga accattaccg tttgacatca gcatgaatac tcactctgaag actgagaagc 180
tgacactaaa agggaaaaat cctgttacct ttgatcacct tagtgtgagg ggaaacaaca 240
tccgctatta tacccttctt gacagcctaa acctggagac tttgctgggt gaggaacac 300
caagggctca gccgttgaag cctacttctg ggaagccctt gggacgtgag cgtggccgtg 360
gtcgtgggag ctgtcagtgt caggacggt gagcatgcta gctgcttttg gaaattgcat 420
agcgtgcac tgcagtgtta cctacat 447

<210> 56049
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E7

<400> 56049

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tgatccatgg ctgcagaaag cacctttcca gcaattgcca cctgatacac caagcctgtt 120
cctttcacat gaaatgccag gaaaattaca caatgacttg gtttttgggt ctccaaacaa 180
atcagcccgt gagcaccctt ttggaccgcc tggttatttg tggcccaagg aggaactggc 240

gctgaatgga gctcaggacg gtggaggcgg gcatatcctg tcgccgtctg gtggcgcacg 300
agttggcggc ggcgttggct tattttcttc agcaagtcca gatgtacagt cactgtggtc 360
attccatgaa acattcaatg aaaaagagag catagaatga acaaactttt ataatagaag 420
ggaa 424

<210> 56050
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-005-Q1-K1-E8
<400> 56050

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agggtgtaac tttagctcag ttttcgttcc agatacctag acctctgcgg caggactatg 180
tcaaaaagaa accgaagttg ataaatgcaa gtgatgaagc aagtacaatt acctctaagt 240
cttatgaacc agaagaagtg aaccctatag cctgggcagt tcctacaaaa catgagggtg 300
atgccagtga agaagcttct tttgccgatg agacacttgc atcagaagta gtgctaacct 360
ggaagaggaa aataggaagc tctttgtcag tagagccaaa ccac 405

<210> 56051
<211> 367
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-005-Q1-K1-E9
<400> 56051

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ccctatcatc gcaaagatga tggccaagtt caatgggtcc cagtgatggt tatgtcgcag 120
tcaggttttg tgagcagcaa gcaaaggttt gttggacagt gaacagggtg tcttttcgtg 180
catctggtct gggagtgtgt ttagcttgtg atgaagaaca tgagtgtgtg tgttggtcgt 240
ggtgcatctg gaggtgcatg gagcatgtga tgaaaaaaaa accaaacggc tctatggtga 300
tgtatgcaaa aagttgcttt cgaacttgat ttctcaattc acagatgggt tgacagtttc 360

ttgaatt

367

<210> 56052

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F1

<400> 56052

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cccctgcgag cacctgcgcc accagaagtc catcatgaag tcgcagcgga acgcgctcct 120
catcgccgcc gcgctgctcc tctactggat cctcttctcc gtcaccagc tcgtcgtcag 180
gctcgagcag atgcagcagc gcgtcgacaa gctcaggaag cgcgacgact gatggatccg 240
catccatccg gtgggctcgt tcttctctt cctgccttgt gttcctgctt tatgttgttg 300
tgctcatgtt ttagatctcg gatcgtaatt tgagacctgc tggtagcatc tgcttccttt 360
gccttgccgt cttcagataa aaaagaacag cgctcttgga aacgatgata atgtttagga 420
tgtttgagcg aatggtatct gtcgtaattg a 451

<210> 56053

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-005-Q1-K1-F12

<400> 56053

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ggcaccatcg atttcccaga gtttctcaac cttatggctc gcaagatgaa ggacaccgac 120
tctgaggaag agctcaagga ggcttccgt gtgttgaca aggaccagaa cggcttcac 180
tcggccgacg agctccgcca tgtcatgaca aatcttggtg agaagctaac tgatgaagag 240
gtggacgaga tgatccgtga agctgatgtc gatggtgatg gccagatcaa ctacaggag 300
tttgtcaaag tcatgatggc ccagtgagcc acagaaccat aatctgaaag cagaaaagat 360
tatgcatngc atattaatca aaatgcaact ttttattcca tcgacttcta gtgaaacatt 420
ctgctagtgt tagttgctga aaa 443

<210> 56054
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D8

<400> 56054

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ttagtagtgt tagagctcga aggtgtcatt cgatgtatat ttgttcttgc tctaacaaat 120
gccctaataa taataataaa aaaatcaaga taatgcatta gctaaaacaa tactaaatta 180
aagagacatc tttttagtagc aaaataccta agatacacga ttatca 226

<210> 56055
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C3

<400> 56055

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ccagcagcaa gtcgtcgtcg tcctcgagct cggcgcagcg ggcagcagct gccgccctgc 120
tcgtggcgggt gtccgtcctg gtggtgggcg cggcggcggt gtgcgacatg agcaacgagc 180
agttcatgtc gtgccagccc gcggcgggcca agacgacgga cccgccggcc gcgccgtcgc 240
aggcgtgctg cgacgcgctg gcggggggcg acctcaagtg cctgtgcggc tacaagaact 300
cgccgtggat gggcgtctac aacatcgacc ccaagcgcgc catggagctt ccggccaagt 360
gcggtctcgc caccgccggc gactgctagc agtgtgctag c 401

<210> 56056
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C6

<400> 56056

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 aggatggctg caccctcgcg gactacaaca tccagaagga gactaccctt caccttggtc 180
 tccgcctcag ggggtggtatg cagatctttg tgaagaccct gactggaaaa accataaccc 240
 tggaggttga gagctcggac accatcgaca atgtgaaggc gaagatccag gacaaggagg 300
 gcatcccccc ggaccagcag cgtctgatct tcgccggcaa acagctggag gatggccgca 360
 ccttagcaga ctacaacatc caaaaggaga gcacccttca ctttgtgctc cgtctccgtg 420
 gtggtcagta agtcatgggt cgttta 446

<210> 56057
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-C7
 <400> 56057

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 cgtcaccgca aggtcctccg cgacaacatc cagggcatta cgaagccggc gatccggagg 180
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 cgccgtaaga ccgtcaccgn catggacgtc gtctacgcgc tcaagcggca gggccgcacc 360
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<210> 56058
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-005-Q1-K1-D10
 <400> 56058

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ggaaacggtc cggccgtcga acatcctaata caagcacgag ggttcccgcc gcaaggcctc 120
 ctggaaggac cctgacggcc gcatcatctc cgccaccacg cgcggcgacg ccgcagcgcg 180
 cctcctggac ctccgcaacc agattctctc cggccaggcc aacttcgccg acctcgccgc 240
 tcggcactcc gactgctcgt ccgcgcgacg cgggtggggac ttaggtacct ttgggaggaa 300
 gcagatgcag aaacccttcg aggacgccac atatgccctc aaagttgggtg agctcagcga 360
 catcgtggac actgacagtg gggttcacat catcctgcgg actgcctgag gaggggatca 420
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<210> 56059

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D2

<400> 56059

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 ataggggtgtg tctagtctgc ccttcgttgc agccgggcaa ttttccttac atatatgctt 180
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<210> 56060

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D3

<400> 56060

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 tcccagatga cgaacaacgt gaatgcgaga ataaagctgt tatactaact ggggccatcg 180
 atcttgcaga gacagatctt gtagacaaag aataatgtgc tatggttatc gtttagttct 240
 tgatcatggt tcttttacct acttgccgtt aaaaaaagat gtcattaatg gctgggtgaaa 300
 agcaaattta ctgttc 316

<210> 56061
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-D4

 <400> 56061

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 gcagcggcgc tgctgctgct ggcggcgggg gccgggacgg cgtcggcggc ggtgagctgc 180
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 ccctccgcgg cgtgctgcag cggggtgcgc tcgctcaaca gccgcgcgctc gtncgcggcg 300
 gaccggcagg ccacctgcaa ctgcctcaag agcatgacgg gccggctcgg cggcggcgctc 360
 agcat 365

<210> 56062
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-D5

 <400> 56062

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 ttctgccgtg aagtatatg tgctgatacg tttctcagtc catgactccc cgtcgcatat 180
 tgccaaagat aaatgcttct gtttgtgagg cgagggattg tgtgtaatgt tcacgaactg 240
 tggtagtgcg gcatgtgact caactgtttt aaagatgggtg atgaccaatt tcaaataaat 300
 ttgctgccat cgtagaatta gaagtactat gtggatttac aggaaaaaat tatctaata 359

<210> 56063
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-D7

<400> 56063

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tgacgaacaa cgtgaatgcg agaataaggc tgctgcaacta gtcggggcca tcgatcttgc 180

agagtcagct tttgtagaca aagaatagtg tgctatgggt atcgtttagt tcttgttcat 240

gtttctttta cccactttcc gttaaaaaaa gatgtcatta gtgggtggag aaaagcatta 300

agactgttct ctagagaacc gaagaaatat ggaaattgag gttatggctt 350

<210> 56064

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-005-Q1-K1-A2

<400> 56064

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gtgcaaaacc ttcttatgca gatgcaaacc aggttccaag ctatgtcgga gaacatcatt 180

tcaaagatag atgaaatggg tgcgagaatt gatgaattgg aacagagcct caatgacctc 240

aaggctgaga taggcggtga aggcattgctg acgccatcta agatgaagga agagtcaaga 300

ccttcggaca gtcctcgcatg agtgcagcag aagcagcatg actcgtttca gagggcgttg 360

ctgtgtcttg cgtttattac taacaaatac tcctncgttc ttttttattt gttgcgtttt 420

agttcaaaaa tgaactagcg agcgacaaat atttga 456

<210> 56065

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A3

<400> 56065

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gctgccggac gaggaggctg acagcagcgt agctgtgctg ctgcgtggca tggcgtgctc 120
 cgtccccggg tgaacttccc ccagcgtgtg gcacgggtgg gggcaaccgt tgcgggcca 180
 cctgtaagtg tcaggccggc tcgccgccgt ggctcggtag cctaggactt ctccatgtct 240
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 agctgtactc gccggagcga tctgtgtc 328

<210> 56066
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A6

<400> 56066

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 attcacatgg ccgttcttat ccaactttat cactgtgaaa accctctcat tccccatgtt 240
 atttccctg atatacctcc ccctttctcc agttgtctca ataacgtcaa ggcc 294

<210> 56067
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A8

<400> 56067

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 ccggcggctg gcgcgcaggg gcggcggtgaa gcgcatctcc gggctcatct acgaggagac 240
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<210> 56068
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B1

<400> 56068

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agttgaaatg tggaatggat tatgaatc 148

<210> 56069
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B3

<400> 56069

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<210> 56070
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B7

<400> 56070

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ttggcatcca gcacaggggtg accaaagaag acgccatgaa gtgggtccag gtgaagtacg 180
agggtgtcat cctcaacaag gcccaaaaca cctcgtaatc attgatagtc atcaaacgac 240
ttgcccttta gcaactccagt tcaagtataa tctgtgtact atgaatactg tgtttgttgg 300
ataccaaatg cactgccagt tttgcgtctg tgcccataat ttcactctga tcagactagc 360
agttatgaac aaattactgt tttgatagtg ttaaagtgag ctgccagca aaatctgagg 420
aacatt 426

<210> 56071
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C1

<400> 56071

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cttctcaggt tcatcttctg ccgagcaact cattccctgt tcaaaccaac aaaccataag 180
acagagttcc tgccgacctg catgcctcct ttgcctgagt ctgttgatgc agagagcatg 240
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tttgctgagg ttaccacatg gcctgatgtt gaccctgagg aggctgttgt caccagttct 360
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tcatcatctt tttgatgc 438

<210> 56072
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G6

<400> 56072

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ggttctgccc cgtcgaaaaa aatactagct gctgctgctt tacagggttt tgtctcagcg 180
tattggtggt tgactattct cagctacttg agcatggggg ccatgattct ttgatcatct 240
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tgtaaatcac caacaaccac cacactaggc tttttctgta ccatcatgga cgggccacaa 360
gaatttacia ttcaaagctt tggcacttgc catatttgat gtcgtc 406

<210> 56073
<211> 488
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G7

<400> 56073

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agacttcagc ttcttgggtc ctttctgtt cgccgccctc atagtgtctc ttgtgttcgc 180
actcatccag atcctgttcc cactgggcaa gctctcccag atgatctacg gcgggctggc 240
gtcgtctatc ttccagcggg acatcgtcta cgacacaaac aacatcatca ggcgctacac 300
gtacgaccag tacgtctggg ccgcagtctc cctgtacctg gacgttatca acctcttcct 360
gtccctgatg accctcttca gggcagccga ctaggcgctc tgctctcatc ctgtctatct 420
acgagtcggt gcctgaatgc tcccgtgggt aagctccggt acccagaatt ccagttccaa 480
gaatagag 488

<210> 56074

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G8

<400> 56074

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aggaggctgt gacacgtaca gagattaaac cataagaaac tagtttattt gccagtggtc 120
gtactttgga cggcgatttg gagatagttt atttgcagcg gcatggccac agcccatagc 180
cccaggcaat cattgagctg acttcacaac tagtaggata taaaaataaa aaagaaaact 240
tctgggcggc ggattgtata ctgcctcggc tcgtccataa tgctggggtc tccagatact 300
atgcagaaaa cgcggcctcg ctttgactcc agatatactt aattttattct ttcgaagtct 360
gcaaatgaaa agcttattcc acctgctgct tattttttatc ttcttccaat ggtggaaaga 420
gctgctgata c 431

<210> 56075

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G9

<400> 56075

aattcccttt cgaccctc atactccac tcgttctaaa aaaaaaaaaa aaaaatcaaa 60

aataaaacaa aaaaaaaaaat aaa 83

<210> 56076

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-H1

<400> 56076

nccacgcgtn cgtttgcgaa gttcaccag gatttggcgc tgatcggagc tctgctcttc 60

tgtctgggca tgaagaactc catcccgaag cggcagggcg gcaagaagaa ggcccccaag 120

gcgaagacga actagggctg cttagatagc tgcacgcctc aggtgggggtg tatcaggaga 180

caggtctatt tcgaagcagg ctacgcgca tgcagcgaat gccatcagc tgcgctttta 240

catgtttatc atcagattcc attttgcggc ccgaacaaag gtgtgaccgg ngtggggttag 300

gcgactagat tgcacgatta tgtacttgag atttgtttgt tgaactgggt tgccgacggt 360

taaatctctc catttgattt 380

<210> 56077

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-H12

<400> 56077

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gcagcaggcg cgaggcggga ccgggacagc ggcggcgtcc gcgtcgacgc tggggcggac 120

gctggaggcc atcggcgagc ccgagagccc cagccagagc caggtgtcgt cctctgcctc 180

cttcgggcgg aaggtggcgc ggtcgcgctc cgtgggctgc ggcagccgca gcttctccgg 240

ggacttccta gagcgctctt acaacggctt cggcgactgc acgctccggc gcgtcgagtc 300
ccaccgcgag cccaagcccc acaggatgcg cggcggtgcg tgctgcggaa gcctgggcaa 360
cctncacgga gctggcgag acgacgctga cgacgaggac gaggacgac 409

<210> 56078
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H2

<400> 56078

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gatggatcta acttgctgcg acaagaacga gcgtgcccac actcatacta ctatataacc 180
gaatacagca acatatgata agtcactctgt aacaagacaa tctactattg tccaaatctg 240
acgaggatac tactgcatat tggaaattgg ctaacgagct ggttgataaa tggagtcgac 300
caatattcaa caagagcacg agatttgagg acatgaagag atatgatgat gaaagagcac 360
cttacaggcg gtcacaaatg aagaaacctt catcgagtag ctc 403

<210> 56079
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H4

<400> 56079

aattgaccga tcgactccac gcctcccata gaggacattt gcaagaacaa tctaaagtag 60
gaatgtgatc accacgatat ccgcactcgg gtaaataatt accttggacc agtacatgac 120
gaacgcatgc aatacataaa tattcaagct gctgaccgga aattattaac tgacactcca 180
actgacttgc aacagaatga tcgaatacat catctgatca aaagtgtctt attaaatgtc 240
aatatggtat cgtccaaata tcacatgag actactgaca ataggaaatt gagctaaaga 300
gctgcttgat aaatggaatc gaccaatatt gaacacgagc acgagattag ctgacatgaa 360
tagatatgat gattaaagag cacattacat gatgacacaa at 402

<210> 56080
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H6

<400> 56080

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cgtctaaaaa attggcttga gccattacct gatggaagca tgccaaacat gaatattcga 120
tctgctgtac tgaaattatt aactgatttt ccaattgact tggaacagta tgaccgaaga 180
gagcagctta agaaaagtgg tctgggaaaag gtcattatgt ttttgtccaa atctgacgag 240
gagactactg caaataggaa attggctaag gagctgggtg ataaatggag tcgaccaata 300
ttcaacaaga gcacgagatt tgaggacatg aagagatatg atgatgaaag agcaccttac 360
aggcggtcac aaatgaagaa accttcacg agtagctctg gaatggaatc cagagatgat 420
gatcttgatg ctgacttttc acaacgcaag 450

<210> 56081
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H7

<400> 56081

gaagaagaat gtgagatact cactaagatg caaatTTaag agtacaattc tataagatgc 60
tggtcaagga aaattccata gcctgttggc caaacataca atcgaacatt ctagtacgcc 120
tcttaactat gtctcaccaa attactgtga atcagttcag ttacgacacc gatatccgaa 180
gagagcagct taagaaaagt ggtctgggaa aggtcattat gtttttgtca caaatctgac 240
gaggagacta ctgcaaatag gaaattggct aaggagctgg ttgaataatg gagtcgacca 300
atattcaaca agagcacgag atttgaggac atgataagat atgatgatga aagagcacct 360
tacatgctgt cacaaatg 378

<210> 56082
<211> 228
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H8

<400> 56082

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ggcgtgtagg ttttagttga gctgtcaggt tggagtgacc cttctcctgt gtaacgcttg 120
cctgggtactg cttcagttat ttggacactg tttgtgttga gttgttaact tcaagggtgc 180
aaacctggat aattatttag ttattatatg actatctggt atccgggt 228

<210> 56083

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A10

<400> 56083

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tggagttgag ctggcactcg aattctttca tgcattgtga gcgcaggatc tgatttgagt 120
gggtctcccg gtgagttcgc gagcagcaag ttttgcaacc tgtaattgcc tgtacatcaa 180
cacaacacaa ttttgtccct aaccgcaact ggtggagagt agcaaggagc gatttggcgt 240
gaatgaacca aaatgatccc agtgtagatg acatactata actgtgctat ctttgcttgg 300
ttgacgcttg ggccaagtct tcgccacatt tgtttaactg gccatcacct gtttcttggc 360
accaagccgg cactcgcaca gatctttaat aaaagcttgg ttagatatgg ctccc 415

<210> 56084

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F3

<400> 56084

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tgcgtcggcg ccagcagacc catgcatcaa ccagcatgga ctgcggatcg atgggtgctg 120
ttacccccgt caggctttat tctaagttaa atcctaagga aaaaaatggt gcttcttgg 180

gctgc

185

<210> 56085

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F4

<400> 56085

cccacgcgtc cggttcacgg atcttcaaata atcacgagga gccattacct gaacacggag 60

gagttcattg acgctgttgc tgacgagctc agatcaaggc tggcggccaa ctcgaaacct 120

tgaaatcctt gccgaagttg tgggtgctttc ctgcgcgacg ctttcgaacc gtttttatta 180

tgtcgccatt ttctttccct gtgccaccac cctgaatgaa gaaggcctga gctaggcgaa 240

catctgcagg ccgcagcagt atgccaaatc attatcatta ccgttgccat taccaattgg 300

agattgccgt agatttccgc gattatggga actcatttac ctgattatct gatacgtttg 360

aaataaaaag gtcggcattc agaata 386

<210> 56086

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-F5

<400> 56086

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cgaggggatg atgtggttcc tataccaggg acaacaaaaa cgaagaacct agatgccaac 120

gttgactcct tgaaggtgaa gctcacagct gaggacctga aggaaattgg cagccagata 180

cgtgcagaag atgtggctgg tggaagacaa tacaattcct atgcacatac ctcttggaag 240

tatgcagata caccaaaaaa gtgaagctct ggaaaccttg tagcaatcac aggcgtatgc 300

aaatgttgaa ctatttccct gcatttgagc cggaatcgta cgatgatgca tcttgtgaac 360

atgcggcact aataaatcga gacgaagaat aatgtanttt ccatc 405

<210> 56087

<211> 270

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F6

<400> 56087

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 cacggatggg gcattgggct catgatctgg ctactatacc atagacaaca aaagccaaca 120
 acctccattc caacgctgac tccttgaatg ttaatctcac acgtgacgac ctcaaacaaa 180
 ttgtatgaca gatacattca ctttacgtgg ctcatcaacc acaatgcaga tcgtatgcac 240
 atacctaacg atattatgcc catacaccaa 270

<210> 56088
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F7

<400> 56088

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 agccatctcg cttcgcttac aggattagtc tcacagatca tcactatcca aacagaactg 120
 agagcgatta gcatttagtc aaactgtaca aatgggtttca gagataccct gtttgggata 180
 gaagactctg atgtattgca aacgatcttg aacgatcgat ataatgggct ctaatatgtc 240
 atatgtgaca gaatcatggg ccttcataga tgtgaaacgc ccattcaatg gaactgtttc 300
 tatcagaggc agaattattg ctgggacatg ccacaatgct aagatgaaca gaactatcat 360
 tcgtcgcagg agctacc 377

<210> 56089
 <211> 487
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F8

<400> 56089

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aacaaaggaa gccatattat cattttgaag aaaggcttcc tctgttgccct attgaagaag 180
 tgcgtcagcc acggtttgat gatgaaaggc gccctgcagt tagacatgtt cctcttgagg 240
 atccatatag ggcacaagca ccacgctttg caccagttcc tgttgagtct cagcttggcc 300
 attcggttggc tagtgctcag ggtgatcacg gcagatatta tcaaccacca gcacttgccg 360
 ctgagcctcg acacattcct cttgttctag agcctcgcta tgttccgtca gcccatgtgc 420
 ctactgtgcc agagcttcaa catgtcccag ctgcatatta tcgcacttcg gctccatctg 480
 gcgactc 487

<210> 56090
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F9

<400> 56090

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 ggaggcattc ccaaagttta aactaacata caagggttggc cgccaacttc ctaaaaaata 180
 cagcatgggtc ctaattccgt ggaaccttcc aaggaaa 217

<210> 56091
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G1

<400> 56091

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 ggtat 65

<210> 56092
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E7

<400> 56092

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gggagctcgc tgagccctgc ctccacctcg cgggggctct cctccacct caccgagtcg 120
tcgtccttta cagcagaagg aatggaggga acagaggag gatttcaaga aaaaggttag 180
gcgcatcgtg cggaaatcac aggaaatggt ctgaaggaaa tgggagtgtt ggtgaagtta 240
accatgccat gtcaggctgc aggattttgc tgccaacctc aaaagtgtc atctgacacc 300
agcgtcttgt gtatcttcca tttatcgtct gttcattggt gacaattgcc tccagaaatg 360
cattgggacg tggtcggctt ggaagggtct gtttgtgtcg 400

<210> 56093

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-G2

<400> 56093

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gtgcttgcgt atgagacctc ttaacaaccc ctctgcaga ttggccctcg acgggatggg 120
atgggactac ggcctacggg agaggttgta aagtacactg cttaggagca ttggccagtt 180
tatgtgcct aatgtgttac tatgcttggg actgtgcaca ctagaaatgc tagggatata 240
ggtagctacg gacatgcctt gtaatctaca tttcctctc ttcgaatggg aaatgaaagt 300
gattatggtt aggtaaaaag gagcaagtat aatgtccaa attaaaaaan aaaaanatat 360
tatatt 366

<210> 56094

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D4

<400> 56094

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ggcaggcggc cccaggaaga agtcggtgac gcggtccgtc aaggccgggc tgcagttccc 180
cgtcggccgg atcgggcgct acctgaagaa gggccggtac gcgcagcgcg tgggcaactgg 240
cgccccgctc tacctcgccg ccgtcctgga gtacctcgcc gccgaggttc tggagttggc 300
agggaaacgcg gcgaaagaca acatgaagac gcgcacatc ccgcgccacg tgc 353

<210> 56095
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D5

<400> 56095

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ccaatattca aattggttgg cacacatggg aagtgtggca gtcaaccaac agtcaaatac 120
tggttgtaat aatggtgccc cgatcatc tgaagtgcgc tcccatatat ctaaattagc 180
ttccatcgac tcttttgact caaatggca agaattcctg gaccccggcg agtctgtagt 240
cttaatatca aagctgaaga agattaataa gctatcaaac aagaagatcc agttgacatc 300
cactgacaaa cctcaattga tctgtgttga cccttcaaaa atggtggcca atggaaacat 360
tatttggtct gatgactcaa gtgaactcag tgtgcacgta tcagattctt cacattatag 420
aatatgcacg ccaaagaagg tgttaacatt tga 453

<210> 56096
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D6

<400> 56096

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cggctcttgg agcgcaccaa caccaccg agaccggagc gactcgccac cggcgcggaa 120
aaggagggcg gaggctcgat ggcggatgag aatcaggctg gaaagaaaga ggaggaggaa 180
tttagcacag gccctctgtc agtcctaag atgagtgtta agaacaacac ccaggtcctc 240

atcaattgtc gcaacaacaa gaagctgctt ggccgtgttc gtgcttttga tcgccactgt 300
 aacatgggtgc tcgagaacgt gcgtagatg tggacagaga tccccaagac tggcaagggc 360
 aaaaagaatg ctctgcctgt gaacaatgat agattcatca agtagatggt cctcaagggc 420
 gactcgggtca tcatagtgtt ga 442

<210> 56097
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-D8
 <400> 56097

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 ccatgtccat catgaactcc ttcacaaacg acatcttcga gaagctggcc ggcgaggccg 360
 ncaagctcgc gcgctacaac aagaagccca ccatcacctt ccgagagatc cagaccttcg 420
 tgcgcctcgt gctccccggc gagctcgcca agcacgcct c 461

<210> 56098
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-D9
 <400> 56098

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 gcatagtctg tttggagtat tctcaagtgc tgtatcgttg gatggttagac gaacacctta 180
 ttgattgtat gacaggatag ttgcagcacc gggcgctcact atcagtacaa tgcttgatgt 240
 actttattta ctgcgtcgca gtgaccaaac cttatttttg tccaccgaat gaaatgcct 300

atcatctcca aaaaacaaaa aagtattatc ccaacaatat gcaatgtaaa tttaaaaaaa 360
aaagggcggc 370

<210> 56099
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E1

<400> 56099

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agactttggt ctaacggatc atgtctttgt aactgaatca tttgatgcaa caggcagcag 120
ctgccgacac tgctcgtggc ggtgtacgtc ctgggtgggtgg gcgcagcagc agtgtgcgac 180
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gccgcgccgt cgcaagcatg ctgcgacgct ctggcggtgg cggacctcaa gtgcctgtgc 300
ggctacaaga actcgccgtg gatgggcgtc tacaacatct accccaagcg cg 352

<210> 56100
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E12

<400> 56100

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gatctgggat gaatcgaacc gtcagcatca gaaggttcca aatgaactgt tggagcaggc 120
caaagctgct gctcaggcag ctcttgagga gatggatgct gactaagaaa caggacgatt 180
tgcccagact tgggtgtttt ggtgctgttg aaatctccga tccctttggg gtgacccact 240
ggacatggcc aatttgctac aatttattat tttgacccat gtcattgtgaa actcctttcg 300
ttgaagtctg gtatctagat tgacttgat caaagcttgg gtttacgcag actggattct 360
ggagtactgg actgggtgtg gtgttttcgg 390

<210> 56101
<211> 447

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-E2
 <400> 56101

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 aagggtggtca aggtcgtcga ctgcggacag ctctcctaga tctctctgat ctgggtctggt 180
 cggccgcct ccctccgtca tcgtcgactc cccctgcgtc cgttcctttg gatctgaata 240
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 gcggtttagg tgtggatctg tgaaccccat ggcgctctg cttgattcgt gtttcacctt 360
 gtatgttctg agattcatga taatgctatg agaacttgaa attcccgta aaaaaaaaaa 420
 aaaaaaaaaa aataatataa tatattt 447

<210> 56102
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-E3
 <400> 56102

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 actttacgat tctatcaagc cagttgtcct cactggcagc ctccaggaca acttctttgc 180
 cagttttgct ctgggttggc tgatcaccaa cgggtgctggt cttgcatctt accccattga 240
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 ggacgcattc cagcagatcc ttaagaagga aagccccaag tccctgttca aggggtgctgg 360
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<210> 56103
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E4

<400> 56103

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ggaaagggtg cagatcttgg actgacaaaa ctttcagaaa ttggaactac atcacagtca 120
ctcccatcac tacgagttgt tggtagatct ggtagatgc ctccagagta tgctcgatat 180
ggtagaggtt ctcctaagggt ggtagtctac gcttttggta tagtcctgta tgaacttctt 240
tctgccaag aagctattgt gagatcaaca gaattcactg atgcacaagg cctgggtttat 300
ctgtttgagg agactctcag catgccaac cccatggaag ctcttttagga aatgattgat 360
ccaaagctag gaggtgacta cccattgac 390

<210> 56104

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E6

<400> 56104

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ggaacaccca aaacttacta gggtagggc tcttttatca caccatcacc atacttacia 120
cactgctaata ctccaccttc aaagtaaaac acgtcgctaa ctgcacacag gtctacaata 180
tctctaaaaa cacatatgat cagaaaatct ccatacgtca tcttccactc ctaatgatta 240
ccagtcctaa catcacccaa aaactcataa atatctcgat tcaacatcat actttattac 300
ctattacatg cctcatgaat ttaactgttt acatgatcat cagaaacct 349

<210> 56105

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-D12

<400> 56105

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gacgtgatc caggggctgg cggacctgga ggcggcgggtg tgctctgca ccgtcctcag 120

ggccaacgtc ctgggcatca acctcaacct gcccatcaac ctcagcctcc tcgtcaacta 180
ctgcggcagg cgcgccccct cgggcttcca gtgcttctga tcacgcccat cgatccatct 240
gcaggctaaa taatttgctc aagctagtat atatacgtac gtacgttgat atatatgatg 300
tagtattata tatatgtcca tgcattgcaat gcatctcgtc gtccatcgca tgttgntgtc 360
gttggtgtgt gtgttttcga tgatcctgtc tctgttataa atatcattat tattac 416

<210> 56106

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B4

<400> 56106

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aagggatata gaaatatcca aacttaagaa cacaaacata cggcctgact attttgatgt 120
tccatcctct tcaacccaat ctttcgacct tatagctcca atttcgtgac tcgtaaatcc 180
atttcattac ccatcttttt ac 202

<210> 56107

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-B5

<400> 56107

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ggcgcagtac atggcggagg acctggcatc gttctccgag caggatctga gcaaccttga 120
gcagcaaadc gagttctcgc tgtacaaagt tcgcctcagg aagcaagagc tactcgacca 180
gcagctgctc gagatccacc aaaggagat gcatatgcca gcagagcagg gcggctacct 240
gtgcctcatg aaccgggctg cggctattgc tagcgggcag caccagcagg ctggcgagat 300
gggtggaatt aaccggaggc cgttcccgtg gtgggacgtg ggagccagtg gcagtggcag 360
tggcagccag agccagcagc agctgctgca cggccgggac gccgcggagt cgtcgatgac 420

ggcgctcggg ctgtcgnccg aactgcatgg gt

452

<210> 56108

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-B7

<400> 56108

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gggccagggg atctgatctg gcagattgtg aggaagaaca actccttcct ggtgaagcag 120
tttggaacg gcaatgcaa ggtgcagttc accaaggagc ccaacaacct ctacaattta 180
cactcctaca agtactctgg cttagcaaac aagaaaactg taacgatcca gccagctgct 240
ggaaaggact cggctgtggt cctctctact accaagacca agaagcagaa cacacccgcg 300
aagctcagcc acaagtctgt gatgcgcaag gagttccgca agatggccaa ggctgtgaaa 360
aaccaggttg gcgacaacta ttacaggcct gatctgacca agtcggccct tggtaggctg 420
agctctgtgt accgcagcct ncaggttgcc aagtctggtg tc 462

<210> 56109

<211> 484

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-B8

<400> 56109

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gaggctgccc agctggccgc cgtcgagacc ccgaacgagg agaccgctgc tccggcgggc 120
gagaccgagg tcgtcgccgc taaggagccg gtgtcggccg aggccgagac tgagtccaag 180
gaggtcgagg tcgaggccga ggccgtagct gaggtgagc cgaccgaggc agagcccaag 240
gaagcagagc ccgaggccgc cgcgccggca gcagagacgg aggctgctgc tgccccggtc 300
gaggctgctg agccggagat agccgccgag accaaggagg cggcggctgt ggaggctaac 360
gaggaggagg gggaggcatc gcctgcggtt gctgccactc ctgaggctgc agcgaccgan 420

gaggaagcgg ccgtccctgc ttccgaggcc gncgtcgctg ccgtcgagaa gtccgtcgag 480
tgag 484

<210> 56110
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B9

<400> 56110

accactcgt cctaaaaaaaa aatacaatca ctaactaatt aaattaaaaa aaaaaaaaaat 60
aataaatata ttaaggtatt acgtactata tccgtaaata aaaaataaaa actaaacaaa 120
tataaaataa accaaaaata accttactta acaaaacact ataaaaaaaaa tccctccttt 180
taaaacttcc atacttaatt cctattcttt ccaaactttc cctctttatt ttattccccc 240
aatttaaaat tatttaccct tattttaaaa atgctactcc tttaaaacct tttccttccc 300
caaattaata cccttttaaa caaacccctt tttaccactt tcctttatta taaaaattcc 360
ccctcctaac cccttttaaa a 381

<210> 56111
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C1

<400> 56111

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ttagtaagca gtggtgaagg atacaggcat acgggcactg gggcatatac catacttttg 120
gactagacgg gctagagact gattttggag tccgttatgt ttccattttc cgttctcttg 180
gttttctctg tcgtcaatgt attataatca tgatgatgaa tggatggaga aatgagatga 240
gatttttttg 250

<210> 56112
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C12

<400> 56112

cgcacgcctg cctccactct acagctgagc cgctcgtct ctctgctatc tgctgcgccc 60
gcctatggtg catgattcta tccagcagtc tacggttcgc tcgcctggct tcgcgatgga 120
caagggcagt gtctacttgc cctctctccg tgtctgcgac tcgcggaaga atgccaatcg 180
ctctgagatc aagaagtggc acgccgtctc tctctgggcc tgggacatcg tgggtggacaa 240
ctgcgccatc tgccgtaacc acatcatgga cctctgcacg gaggccaag cgaaccaggc 300
tagcgccacc agccaggagt gccccgtctc ttggggaatt tgcaaccatg cattccactt 360
tcaactgtatc aaccgttggc ttaagacctg tcaagtgtgc cctcttgaca acaggggaatg 420
gcgagttcaa gaatatggtc actagagaga at 452

<210> 56113

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C4

<400> 56113

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ttcaaacttc aaaactttta tcctaagtta ctaaccatat gcaactgtta tgcatttac 120
agggaaaagc gcaaggtttt attgcaaccg tgcagtctgt agctatattg ttggcaccac 180
tatttatgag tccactgacc tcttacttca tttcagagga aacgcccttc gactgcaaag 240
gtttcagctt tattgtggcg agtttcttct tggcaatctc gttctgcctc gcttggatgc 300
ttaaccagg aatgaaggac aagggcacia aagctgtcgt ttcagacagc gc 352

<210> 56114

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C5

<400> 56114

aaaaaaaa ataaaaaaaa aaaataaaaa ttaaaaaaaaa aataaaaaat aaaaaaaaaa 60

atgggaataa atacaaa

77

<210> 56115
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C8

<400> 56115

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tactgaaggt ttggttgcca aggacaagtt tcatgtaagt tacagagggtg gaaaactaaa 180
cagctcctta tctcaggcgc tgaccaattg cctgcgttat tacctccgaa ggcttgagac 240
agatgaagac agctattgat tggtgtgttt gtcgaacctt cctatagtgc attagaatca 300
gaaactttgg cttcagttcc ttcgctatgg gcccttgta ctgctgcaaa tggagttttc 360
cattgtagct gataaagtgc cgacaagggtg catccatatg tgcataagggtg gcactgaatc 420
ggggctcact ggaccagttt gatattgtag taatatatat acagctggga gcaacat 477

<210> 56116
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D1

<400> 56116

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ggcttcggct cggttcgtgg tggcgacatt gctctgcggc ctccatttgc ggcggttct 120
gctgtagtgg tgatggagag ggtagaggaa acccactcgt acgtagtagc actgtactgt 180
accttacctt acattgtagc agtgtctgta gatgattact atcaattgat gatgttgagt 240
tagtcgcagg att 253

<210> 56117
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D11

<400> 56117

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tcaaccacag tataaaatgg tctctctcta caattatcat acaatgcttt caccaccttt 120
tattgaatca tcttataata ttgtaatcat tacatacgat tattcttata tcaactacaac 180
ttaattctta tcccctatga cgacttattc tacc 214

<210> 56118

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-H9

<400> 56118

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ggccaagaac gtttccgcac gattactact gcttactaca ggggagcaat gggcatcttg 120
cttgtgtacg atgtcacaga cgagtcattt ttcaataaca taagaaattg gatcagaaac 180
attgagcaac atgcttcgga taacgtgaac aaaattcttg tggggaataa agctgatatg 240
gatgaaagca aacgggctgt gccacttcg aaggggcaag ctctcgctga cgaatacggg 300
ataaagtttt ttgaaacgag t 321

<210> 56119

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-A2

<400> 56119

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caggtagagc aagccaggat aatgtacctc cgagtgggtg tgatgatgca aaagcaacag 120
gatccagtgg accagacaat gaagtacca agggatgatgc aaaaaccata gggaagaata 180
ccctttttgc accacgagct ctgggttaaac ctcttggatg gacaaacaag gatgagaaga 240
aaccagatgt tgcaaggag ttgaaatcaa atgatgagtt ccgaaatctg ttactaaaga 300

agtgatatca gttggcaggt gtggatcttc atgccccatt caatgccaag atttgtgggc 360
cttcattctct atgtt 375

<210> 56120
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-A3

<400> 56120

aaaaaaaaa aattataaaa tataaaacat tttaaaaaat aaaaaaaat aaaaatataa 60
atagaatatt tataaataca aaacaatcca taatttataa aaaaaaacat aaaaaactca 120
aaaaaattaa tttatcaaaa cttattaaaa attctcttcc cttttttaat aaccaatttt 180
t 181

<210> 56121
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-004-Q1-K1-A4

<400> 56121

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cagggagctg atgaaggtgg acggggtcac caacgacgag gtcaagagcc acctgcagaa 120
atacaggctg cacacgcggc gcgcgtcgtc ggacggcggc gaccagcacg cgggcgggct 180
gtggtcgtcg gcgcgggatc agcagtacac gacgtcgcag cacagcacgt cgcagtcgca 240
gtcgcagtcc gggtcgccgc aggggcccgt gcagctggcg gtgtcgagca gggccatgtc 300
ggccaccgnc ggggacagct gcgacgccgg cgacgaggcc ccaggcggcc ggtcggagag 360
ctacggctgg gagatgccgc aacacgggac g 391

<210> 56122
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-A5

<400> 56122

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gcggcggcga ccatggctgt cggaagaac aagaggatct ccaagggaaa gaaggggtggc 120
aagaaaaaga cgcgcgacct tttctctaag aaggattggt atgacatcaa ggcaccgtcg 180
gtgttcagtg tgcgcaacat cggaagact ctcttatcca ggacacaggg taccaggatt 240
gcttctgagg gtctgaagca cagagtcttt gaagtttgcc tagctgatct tcagggtgac 300
gaggatcaag cttacaggaa aatcaggctc cgtgctgaag atgtgcaggg caagaatgtg 360
ctcaciaaact tttgggttat gaaatttacc actgataaat tgagaaccct agtgaagaag 420
ggcagacctt aatcgaagcc catgtgatgt caagacaacc gccactac 468

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<210> 56123
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-B1

<400> 56123

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gatgatgtgg aggatatttt agtttgactc ttgagttagg catgaattta accccaagct 180
agctagagaa gttttttttc cctttgaaat tcttctttgc tcgccttcct cctggatcaa 240
attacgttgg aggacaagaa acggcagctt tctctttcgt tttctttgcc tgcttcaccg 300
cgacgataat ggtgaaaata tgtaagctac gtggacatca atgatccaca gcatncgtga 360
tatatataat atagagagaa aattctctgc a 391

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<210> 56124
 <211> 463
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-B10

<400> 56124

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 cctgcttatg gccgacggcg tcacctccac caccgtggtg gctttcctgg aggagcactt 180
 cgggttccgc cagcacttcc tcggcgccgt cgcggaatg gtggccggct tctgcgtcct 240
 cttcgccgtc gtcttcgccc tggccatcaa gtacctcaac ttccagcggc gatgagagag 300
 caatgcaagt ggttcagcta gctagtatag tagccaccgt cgacagaccc accaaacgga 360
 tcgcagccta ctgtacatgc atacaccgat cgatcagtgc angatggcag cagcgcaatg 420
 aattatgaat gcgatgtacc agcgcgtcgt atgggcacag tta 463

<210> 56125
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-B2

 <400> 56125

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 agctgagtca ccacctatca catgttgctt tgtcacttcc atctccaagt atagctgagg 180
 atactgatga ttcaagcatc gatcctggag ctgagttgtg ccagcaaata actgtttcac 240
 aacttgtagc cgctgctatt tcccaggatt ttgctcgtgc tgaagttgaa tcagagatgg 300
 aaaccgtgat tgccgcanag aacttcgaga ttgcaaggct gtcngatagg gtccagtact 360
 atgaagctgc aaacagggaa atg 383

<210> 56126
 <211> 239
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-H5

 <400> 56126

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ttagttcgtc tcgtgtttgt tgttgcccag ggggggtttt gattgaaggt cgctctctcc 120
canttcta at tgctgtgtta atcctcgggt ccagcagacc catgcttaaa ccagcttgga 180
ctgcggatcg atgggtgctg ttacccccgt caggctttat tctaagttaa atcctaagg 239

<210> 56127
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-E11

<400> 56127

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tcttgaggag ggcggttatg atgacgacga agacgcacag gacatggctg cggaagacga 180
ggtgatggat gaagttctgg gcatcaacga tgggatcaac gaggacccat ccaagccgtc 240
cgaagaagct actactgaa 259

<210> 56128
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-E12

<400> 56128

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agtggatatct cgtccaaggc catgtccatc atgaactcct tcacaaacga tatcttcgag 120
aagctggctg ccgaggccgc caagctcgcc cgctacaaca agaagcccac cataacctcc 180
cgggagatcc agacttcggt gcgcctcgtc cttcctggcg agctcgccaa gcacgccgtc 240
tccgagggca ccaaggccgt taccaagttt acttcctctt agatcgccgc cgcacggagc 300
gacggctctg tttcgtttcc tcgtactttt aggccagtgc taataggtng ctcgaggaac 360
aatgtagtgt ggaaatttct aatatattcc aa 392

<210> 56129

<211> 129
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-E2

 <400> 56129

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 taaaatcct 129

<210> 56130
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-E6

 <400> 56130

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 ggagggccag gaggcttctt caaaaaggaa aaaacctagg cgtgcaccac ccggtttcta 120
 actattcttt caatatatac tgagtactga ctcgtacaat atagcttttt actgtctttt 180
 tgcnncaaaa aaataaaaatt ataaaaaat aaaaggggg 219

<210> 56131
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-E9

 <400> 56131

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 tc 62

<210> 56132
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-F1

<400> 56132

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caacaagctt cctcactaaa cccgactcca tgcttcacac acaaaaacttt gaatgagata 180
caaaactntcg cgatccccaa tccatttgat cctctctttc ccataactaat atcagctagg 240
atgcaagatt gttactctcg tcaactgaaa gaacattggc cttttctttc gatatgcatt 300
caccattatg ttcaaaaaag ttctaagcaa gtcccacagt tct 343

<210> 56133

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 56133

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agtcttcaag cggagatgag gagactggga ataaaactgt gacgacagaa caacaaagtg 120
cagctggggc tggctctatg aagtccatt tctcgtgcac tttatagagg taccggttgc 180
tctgagtgtt ggtaatcgac ttacctggtt tcggcaggca ggcatacacg ggcaccgcac 240
cgactaatca caagaggcag tggacaact ttctcctcga gagttcattt ttctttgttc 300
tgagggcggc agttgaaagc ctggacaaca ctagcaattc atttatttgt aatgatccta 360
gcatagcaga tgttgttacc tacccaatgc agcgtttgta aattttttgc tgtaaaaata 420
tcaaaggcag aanaaagtac tttcgcagt 449

<210> 56134

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-F12

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catatattga tcagacatgt atgtaaataat tacttcttgc tcgctgtcaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaatgaaagc taaaaaatga actaacctag taatggaaaa ga 222

<210> 56135
 <211> 216
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-F6
 <400> 56135

gccacgcgtc ccgttatctt aggtttttaa ttaagttttt ttcggaactt caattttcca 60
 atgctaaatt ttttctcaaa aaaaaaaaaac ccttggtttt gtaaaaggaa atggccggtc 120
 ttttaaaaaa aaaaaatcat tattgaaaga attttaaaaa ctttaaaatt atggaaatta 180
 aaaccctgga cattcttaga gggttaaaatt tgcctt 216

<210> 56136
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-F7
 <400> 56136

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 gtgctgcgcg acaatattca aggcattacc aagcccgcga tcccgatgct tgctatgatg 120
 ggccgcgtca agcgcattct cggggtcatc taccaagaga cccgcggtgt gctcaagatc 180
 tttctggaga acgtcattcg tgacgccatc acctacaccg agcacgcccc gcgcaagacc 240
 gtcaccgtca tggatgtcgt ctacgcgctc aagcgacag 279

<210> 56137
 <211> 230
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-G1
 <400> 56137

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 tgtagattct ccttttttcc ttgggtttca tcagtcagtg tataagtact aatgtccatg 120
 ctgatgttaa tctctgtaag actgccttca gtttactgat tcaaaaaaaaa aaaaaaata 180
 taaaaaaaaa aacataaata taaaaaatgg atggattata aaaggtaact 230

<210> 56138
 <211> 162
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-G2
 <400> 56138

gcaaaatgca attgacctga gcactgttga tgtcagctat gttagtagcc gggcagggta 60
 gttcctcaat ttattcanct tgaggggtct tttcagtctg atcctgggtg aagaaaacgc 120
 acctgatgat gccagaaaa tgatccaaat ggggtgggggt tt 162

<210> 56139
 <211> 57
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-G4
 <400> 56139

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<210> 56140
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-E10
 <400> 56140

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 gggataagtc aaagttagca gcatcgtgat gccaaactgcc ccctatcatg gttttattgg 120
 ccctctgctt gtttctcatt tcccttggga gccagtttct ctgttttgcg aggtcacaca 180

agccttattt gtagtattac aacacagaag ctggctgacc caaaatccga cactctgggt 240
gcagcaactt aacaaaatgt ttgtacgagg gtttagagcc ccacggtgct tctttggata 300
agtatgtcta ttaccttgta cttagctagg aacctgctta tatgcaagat ctttgcgtag 360
gacggagaat tgtcacagcg gcataattct ggtgcatctt ggattt 406

<210> 56141
<211> 206
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-G6
<400> 56141

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tccattttta nncctnncag agcgggtaac ttctttttct tcctccccc aacaaaaacc 120
cccaactttt ccttaagaaa ccccccaaga acctttgttc attatacaat caatcttggt 180
tgaagatcct tccattccaa ccaatt 206

<210> 56142
<211> 148
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-003-Q1-K1-G9
<400> 56142

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attcggtttg aagggaagg tcgccaaa 148

<210> 56143
<211> 345
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-003-Q1-K1-H1
<400> 56143

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ggcaaacatt gaatgcaagc tgaaccatac tattgacaag ccagaagagg ctaccattat 120
agagatgcag gagccggttt ccttgacctt tgccctgcgg tacatgaact ccttcaccaa 180
ggcgtcttca ctgtctgagc aagtcactat cagcctgtcg tccgagcttc cagtgggtggt 240
cgagtacaag atcgctgaga tgggttacat tagattttac ctggcccca agatcgacga 300
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<210> 56144

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-H12

<400> 56144

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tttgttgtgc tggcaagata catgcaaadc ctctcagaaa acctgttaaa agcatatggt 120
aaagacatta tcaatattca tcatggcctt cttccctcat ttaa 164

<210> 56145

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 56145

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ggtcgccgcc gaggttctgg agttggcagg gaacgcggcg aaagacaaca agaagacgcg 120
catcatcccg cgccacgtgc tcctggcgat ccgcaccgac gaggagctcg ggaagctgct 180
ggcaggcgctc accatcgcg acggcggcgt cctccccaac atccactccg tgctcctgcc 240
caagaaggcg gcggaagaatg cggncagcgc cggcagcaag gagcccaagt cccccaagaa 300
gggcgccaag tccncaaga aggcttagaa agtagggact tcatttgc 348

<210> 56146

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B8

<400> 56146

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ctctccttct tcgggagcga cttcgtgacc ccgaagcagg agaaccagac gctgcgcccc 180
ttcttcgacg agtggcccaa gtcgagggac tcgtggccgg agctgaacga ggacaacagc 240
ctcggctcct cggccaccca gctctccatc tccatcccca tggcgccctc cgacttcaac 300
accagctcca gatcgccgaa tggaataccg tcaagatgaa cctgagtaac catgcggacc 360
ccaacatctc agagctgacg actctttgct gctggcctgg cctcatcgta ccttgaggcg 420
tcaaggaata cttcattacc actagtatca tgctcctgg 459

<210> 56147

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B9

<400> 56147

gctagctctt gttgttgttt tgcatgtttg attgggtgtc ccttcccagt cgagatggag 60
gaatgtcagg cgcacgtaca gacgtgttat tacgatattt ctcccct 107

<210> 56148

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-C10

<400> 56148

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gggagcccga ggaggaggag gaggaagat ctcgctcgat ccaaggaggt gagtacaaga 120
tggtgagctc ctcgtcgccg gtggtcaacg tgtaccgcgt cgccaactac acgttcggca 180
ccaaggagcc caagatggag aaggacacct ccgtcgccga ccgcctcgcc cgtatgaagg 240

tcaactacat gaaagaagga atgcgtacaa gtgttgaagc aatcctattg gtgcaagagc 300
 acaaccatgc tcacatactg ctcttgcaaa tcggtaatatc attctgcaaa cttcctgggtg 360
 gacggttgaa gcctggagaa aatgaaattg anggtttgaa aagaaagtat g 411

<210> 56149

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C2

<400> 56149

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 tctttttcac c 71

<210> 56150

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C3

<400> 56150

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 gctcggaggc tgctttgcat tgtcttttca catactacat gtctcagatt cgatcgatca 120
 agttctgccc cgtcgaaaaa aatactagct gttgctactt tacagggctt tgtctcagcg 180
 tattggtcgt tgctgatatg caggctcttg agcatggcgg ccatgatttc ttgatcatct 240
 tggatgttac tagctgatcg gcgttccaat gacgttgtct ttgcagaacg atctttttct 300
 cttaaagac gaacaacctc cacactaagc tttttctgtg ccatcatgga cggaccacaa 360
 gactgtaccg ttcaaagctt t 381

<210> 56151

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C4

<400> 56151

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<210> 56152

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-C7

<400> 56152

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gatgcaatcg ggtgtggaat caccctgggt gatcgactt tctatggcta cgtgaggcat 120

ctgatctcgc agcggaaggc tgcagcccca gggagtctag gaacagcgca agcaaggaat 180

cagacggaga tgcttccctt tggtgtggac gagaagcacg aaaagggtta gcaatggtgc 240

taggccttct cttcacttgt tgaagagaga attatatatg tactcgtgcg tgcntgtgtg 300

gcgagggtag caaactggaa cttcgtacaa gcctcttttc ctcttccat ttgtgacact 360

attcgccagc atcagaatgt gaaattgaat 390

<210> 56153

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-C8

<400> 56153

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cggaccatca ctaggcctgt gatattggca gggtcaaaag cttctgttac tcggccattg 180

caaaaagctg aaagggttcg gactgaactg ctcaaacgag gcgttcttct aattcctgtg 240

atctttgggg cttctcagaa ggaccaaacc aaaccaaggg gttttggtgc aagaagagct 300

tctgcatcag ttccttctgt tgggggtgac tttgaaaaac gtactgattc tattgcagca 360

aaat 364

<210> 56154
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-C9

 <400> 56154

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 agagagaaga gatccgtgct ctacgttgca agtctaattg atatcctgcc gagtattctt 120
 cgagaggccc attaaaaaaaa agtattcttc gaggcttgtg cactttctgtc actgttttgt 180
 acccgtgtt taatttctgg gcggtatgat atcaagagta ccagatgta tccgtcgttg 240
 ctggtctaaa cactaatggg gtgtttggcc tgnat 275

<210> 56155
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-D10

 <400> 56155

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 gccccctagc ataccagcc agaaaaggat cgctattcac gcctatcatt tccccctact 120
 attcagttga actctagctc caagtactgg acgctctcgc ctttgtccag gcaatcctgt 180
 gaaacgcaca tgccccccag ctcatccgtg gaacaaacgc cttttgtagt tcaaataatg 240
 ataactaggg tgcaagatgc aaaggaaact aactaaaaaa tgctgtacga aaagacatga 300
 cgttccttca aagaaacaat tttaaactac acaaccgggg ggg 343

<210> 56156
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-D11

 <400> 56156

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gtgaatgtgg gtgaactgat tcttgtttcg tttgattgca gtggaagaag aagaggatgc 120
ggaggctcaa gaggaagcgc cggaaaatga ggcagagatc taagtaggcg catcttgtga 180
cgaggatggc gagctttctc tgcattcatg ctgaggctcg ttgggatgat ggtctccctt 240
tgcagacgtc ctttgtctga gacgtaggcg atgtaaaccg tcctttttga ttcattctag 300
catgttctga gactgggttt atattgtaat ttgaggataa ttatatgatg ctctaagtta 360
aatcagattt ctggc 375

<210> 56157
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D12

<400> 56157
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atggcacctc gtccatgttc tcttcgggcc ctttctcagg cctcagcccc ttcgagaccg 120
aaaccattcc aaggactgcg gttttctcag aagatctcca tgaaggctga tgactggtgg 180
ggggtggctg ccttgccatc gccgagccga gccgtttctc tagagcctgt agccatgtag 240
tcaagcattc aaaggctggt ggtccaattg gcctggccag ccattgggag gaaaggggta 300
cctgtaaaat tccattttct gcgccgtctc aaaagactac tactagatta ttacaacca 360
caaggacgtt ctctggctt 379

<210> 56158
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D9

<400> 56158
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gcgaagatga gcaaggagga tgtgctcaag gtgcagatct ctgaagccaa ttacgtacac 120
attttcctac cagactttt attctgcttt ccgtttctca acgtcttgga cattgccggc 180
gagcgcggtc tcctcgacaa cttctactgc taactcgggt gcaagatgcc cagcaaactt 240

cccaatccag ctgccggcaa ggagatgagg ttcccgacgg cgacaatttt ccactacaca 300
 accggattct tcagcagcat atggatccgt tgaagcgccg tgtgacaatg ccaccaaaga 360
 gcagcaacaa acaagctcaa agtctccgct aaccactaat ctcataaaaag ctgaattttc 420
 t 421

<210> 56159
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-E1
 <400> 56159

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 ttttgttgta aatcactacc gatgcagctc ggtttgcta ctgtttcatc tacactttct 180
 cttccttttt ccttgatgtt ataggattaa catcactggg tgactttctg gaattgcatc 240
 gatggttcct tttggtgaga aaaggtcttg ctgctggtca agaatgtaac ttgtagagca 300
 tgatgttgaa tcgtgtgaaa ttagttcagt acttttgatc taacaaatag aaggtcgaat 360
 tggg 364

<210> 56160
 <211> 277
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-002-Q1-K1-H3
 <400> 56160

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 ctgtgtctct atagttctga acctacctga ttagccatc actgtccttg cgccgattaa 180
 catgtctctc ctgttcgatc atgacgaaga cgttgacact gtatgcatac tcaatggtac 240
 tggtcgagcc aatcaccgaa atgctgacga ggccact 277

<210> 56161

<211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-H4

 <400> 56161

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 ttatgtatatt ttttcattcc ttgatcttgg atcaaagatt caaggcaaag tcagcctggt 120
 gcaaagggttt tggttgaatc cttgtatcct gccagataag gttttttgat ggtgcaattt 180
 tggattagca tttgccctag tatttagtgt tttttagttc tgtattcatt tatgatgtaa 240
 tacaactttg tgagcatagt tctgtttggc ctgctttgtt caatcgcagt gcgggttcaa 300
 tactacgttg cctgatgtta ttgtctgtta ttttctttgt aaaaa 345

<210> 56162
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-H6

 <400> 56162

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 catgatcaag cctgacggcg tccagagggg cctcattggt gagatcatca gccgttttga 120
 gaagaagggc ttctacctca aggccttgaa gcttgtgaac gtggagaggt cgtttgctga 180
 gaagcactac gccgatctcg cctccaagcc cttcttccag ggcctcgtgg actacatcat 240
 ctctggccct gtggtggcca tggctctggga gggcaagagc gtcgtcacia ctggccgcaa 300
 gatcattggc gccaccaacc ccttggttcc tgagcccggc accatccgtg gcgactntgc 360
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 gattgccctg tggttccccg agggc 445

<210> 56163
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-H7

<400> 56163

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agttggggtg acactcaaac ttctaccatt cgagttgggt attagaacta gttattattg 120
gttcatgttg aacttatata tatttccatc cttttgcagt tagtttgagt catatttgct 180
gtgtaccaa catgtattgc aaatttggaa tttttgtaag ctataataag gccagcacgg 240
caatatcccc acatgataac cccgaaattt gtatc 275

<210> 56164

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-H8

<400> 56164

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tatagaaaat ataactttga gtctactcgt gatcttctga ggtatatcag aaataaatcg 180
ggtcattaca gagaactttc aaatgatctc aagggcatac ttgggtcatt gccagagggga 240
tttgatcact attttgctag ccgatttcca aagttgctaa ttgaggtgta caaggtcttg 300
tgggtgcact gcaaggacga agaagctttc agtaaacatt tcaatggaag ctcttatag 360
ctggagagga tngcctnttt ctactgtaaa tactaaccct gatgtagaag ttgtatgtac 420
atttggtatg tataccatat taccggtttt ata 453

<210> 56165

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-H9

<400> 56165

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ttttt 65

<210> 56166
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-A1

<400> 56166

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ggaacttaat ggaaagagggc cgttatttgg tccggacctt cccaagtcag atgagattgc 180
tgatgttcta gatactttcc acgtattagc tgaacttnca tcagacagct ttgggtgcata 240
tgtaatatct atggcgactg ctccctcaga tgttcttgct gtcgagctct tgcagcgtga 300
atgccatgtg aaaaaaacccac tgagagtcgt tccattgttc gaaaa 345

<210> 56167
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-A2

<400> 56167

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gttagcgtgc cgttatggcc tttccactcc caaaagaagg ccgttcttga tcagattgtt 120
gaccctacc tgaagggaat gatagctcca caatgcttct agaagtttgc tgagacagcc 180
gagatgtgtg tttctgatca gagtattgac cgcccctcga tgggcgatgt gctctggaac 240
ttggag 246

<210> 56168
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-A5

<400> 56168

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 acaatgctgg tggctctgat actcccatgc gcgtgctacc tctccatcaa gaagggtgca 180
 gtgccattgt gggagatcat cctgtgcata gtcatacataa tgatcggcgc cgtatgtgca 240
 tgcgtgggat catacacctc agtcagccag atgattagca gcaccagata gcgcacgcta 300
 gctgatattt atctagtgtc tatggatcct tccaaatgnc ttgataagag tggaactggc 360
 agcttttc 368

<210> 56169
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A6
 <400> 56169

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 gcttcggaag aacctgaccc taaaaccgcc ccggttggtg aaaagaaaaa aaagaagggt 120
 aaggccgagg ttgatgagta gccaaagtttt tgggtgtatg gcgtatgaat ccgagagggt 180
 tttgttgaaa aacagagatg aatgcgctgc tagctcaact agcttgtagt tcatggaggc 240
 gttgatgcan acccaactca nagtacgaag ttttcctatc gnetnntagc tggattttta 300
 ttttttgggt ggatatgcta gtgaactcta gtgac 335

<210> 56170
 <211> 191
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A8
 <400> 56170

gcgtcaggcn tnnntnnntn cccaatgtgc agtgttatac tcaagcattg cacagggcc 60
 ggcctcatct gccaatcag cccctcgctc aaaatcacag catcagcgac agcatgcggc 120
 acataatctg ccggatagct attcatctgc caaccaacct gccactttta cacaacagca 180

gcaggagaaa c

191

<210> 56171
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B10

<400> 56171

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gtatgggctg aggtgcaagc gtgagctttg gaggggccag tatgactga gcaggatccg 120
taatgctgca aggcacttgc tcacccttga cgagaagaac ccccgctcgt tctttgaggg 180
tgaggcactt cttcgccgca tgaaccgcta tgggctgctt gctgaaggct agaacaagct 240
tgattatggt cttgccctca ccgctgagaa cttcctcgca aggcggcttc aaacacttgt 300
cttcaaggct ggcatggcca agtccattca ccatgctcgt gtcttgatca agcagcgtca 360
catcagggtt ggcaggcaaa atgtcaacgt cccatcattc atggtgaggg tggagtctg 419

<210> 56172
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-H2

<400> 56172

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ccgaactcgg acacgatggt gaaagcctgg ggtggcagcc accacaagag catttcctcc 120
acacagcgcc atgacgctga atccctccaa tcagtcctcc aaaatttcag cctagcccag 180
aatgacaggt tggagtcaga aaagaacaga tattctgatt ccgtgctagt ctcateggct 240
ttctattctg cagacggtcc acaaactacc tgccttacac ctaacatgac acangtgcag 300
caggactgca tatcaagctc ctgggagatg cctcaagggt gacctctagg cgagatctta 360
acgaactcca agattagtga ggacttaagc aagtgtggat ctaggtcata tggttgggta 420
ttgaatcttg accatgcacc atgattcctc aatccatgga ga 462

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<210> 56173
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B11

<400> 56173

gggtcacctt actgaccgga cgcattgagtt cattgacggt actgactggt tcatgaggcc 60
gctctcatgt gcgtgggctg gaaacagaa 89

<210> 56174
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B4

<400> 56174

cccacgcctt ccatttgccc atggagcagc tttcttcctg aaggaaaggc tgttggcccg 60
ggtggccctt tccagggctc ttgtttttaa aaatggtggc ctcttcccat tggctattct 120
aaggaaaacc tcgttgga 138

<210> 56175
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B5

<400> 56175

cggacgcctt ggcccgcac ctctcataag ctctctcca cattcgtctg gagatctcgc 60
gggggggcct tggcccatc caccagcttg gtgattccct tccgg 105

<210> 56176
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F4

<400> 56176

cccacgcgtc cgcgttttca tgcgtcatat gtgtcttgct gcttttgaag ctccgttccc 60

gggtgcaggg acctacgagt ccattccgcc gtttgcctgat tctgtttgtc gtgtaataaa 120
atgaaaaccc caccocgttt tgaatgaaat tcaattctca gtgtcgtgtg aaatatactc 180
gattgtaaga gttttgatct tgatgttggtc aaaataacgt ccacatgatc ggaagtcttg 240
c 241

<210> 56177
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-F5

<400> 56177

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tggcgcccaa ggccgagaag aaaccccgagg cgaagaagcc ggccgaggag gagcccgagg 120
ccgagaaggc gcccgcaggg aagaagccga aggcggagaa gccgggtccc gctggcaagt 180
ccgctgccaa ggaaggcggc gagggcaaga ggggcaagaa gaagggaag aagagcgtgg 240
agacctaaa gatctacatc ttcaaggtgc tgaagcaggt gcacccggac attggcatct 300
cctncaaggc catgtccatc atgaactcct tcattaacga tatcttcgag aagctc 356

<210> 56178
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F7

<400> 56178

cccacgcgtc cggttgattt gtcggttcat gtgctcctgt aattcacatc acagagagac 60
cagccgatca ataatgtagt ttctgaggac atgtttccct gcagtattgc accttgggag 120
cgcattgtaa atggcctgga acagttgtct actggatttg tttatttatt tacaataaaa 180
gccatgtgaa aataagtaac t 201

<210> 56179
<211> 447
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-F9

<400> 56179

cccacgcgtc cggctgtgga agacctggta cagcattgaa gattctaaat gatttgattc 60
aaaatgaatc tgaaccaaag aaaaagcttt atgatttgaa gatccagttg attgaggaga 120
tgggatggaa ccatgtctca acctacgaaa aacagtggat gcaagtccgc tttcccccat 180
gtctgccacc attttgattg tgaactcatt tttacaatgg ctctatcatc ctgggttcag 240
tagttgtcat tttcattgct ggggtgcgtca gttcattatt tcgatggcaa acagccaact 300
aggcaagcta ctggatttgt gcgtntgggg acacagttat tccatagtta ttttgtggta 360
caatatcagg ggagtccttt ctccaaggag ataagacgga acagagatat tttgatggac 420
ttgaaggaga tnttatcctc ttcaatc 447

<210> 56180

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G12

<400> 56180

aaaaaaaaat atacaaaaaa aaaaaaatat agaaaaaaga ataaaaagaa taaaagggtg 60
aacagaatag aaagaggtat gataaatgaa tgtctaata acacacctct tttgtcgggt 120
ccattctagc ctatttcaac acggctgggg gggggcgttt tcaggtttcc caggttctgg 180
tcccctgggc gtgctctttt agctttgttc tgccgggattg caattttttc ttttttgcc 240
ctctttctct ctctctgtga tgggacaact ggtgctcttt ccatattgat agggtttagac 300

<210> 56181

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G2

<400> 56181

cccacgcgtc cgcccacgcg tccgcccacg cgcccgccgt aaacggtttg agcaagaagg 60

aatatcactt gatcagcctc ttgttacctc ttgtggcact ggtgtgacag catgtgtatt 120
 agccttgggc cttcatcgac ttggcaaac cgatgtcgca atttatgacg gatcgtggac 180
 cgaatggggc gccatcctg acactccagt tgcaactgct gtttagtctc ttcataatag 240
 gacgcccgtg ctcttcatag aggacctctt gattgtatctt gcccgtgct gtgattctat 300
 ggaggttggt tggatgcttg gatgtaaagc tggggaagcg aagccttttg gccttccactg 360
 taaaagctgc aacagaaaaa actgtcacat gcacttgaat ataagataaa cttccctgat 420
 ct 422

<210> 56182
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-G3
 <400> 56182

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 cagttcttga acaggagcta tacagtatac aaagcctgtt ggctcaggag aaggctagag 120
 aaacaacata tcgacaaaga ttacaaacac cacaattgca aggcctcatc caggagcaaa 180
 atcccccaat cgatctctgt ggtcttcaca tcagcgaggc aatacacgtc ctgaactacg 240
 agctcaacaa ccgaagaaag atcgtgagat caaccggctg ccgactccag gttatgataa 300
 tatcaagcgc tcgcacccca gcaaggctga ctgccgncgt cgagcagtat ctcatggaac 360
 ac 362

<210> 56183
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-002-Q1-K1-G5
 <400> 56183

caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg agaagggcgt 60
 gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcg tcatccccga 120

gttcatgtgc cagggcgggc acttcacccg cggcaacggc accggcgggc agtccatcta 180
 cggcgagaag ttccccgacg agaagttcgt gcgcaagcac accgcccccg gtgtgctctc 240
 catggccaac gccggggcca acaccaacgg ctcccagttc ttcattctgca ccgtcgcgac 300
 cccttggtctc gacgggaagc acgtcgtctt cggccaggtc gtcgagggca tggacg 356

<210> 56184

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-G6

<400> 56184

cggacgcgtg ggccagtgc cgcctgatta tgcttatgga gccggcgggt tcccagcctg 60
 gggaattcaa ccaaactcag tgcttggtt cgagattgaa gtcctcagt cccagtaatt 120
 cgcattctgtc agctatggaa acgttggtc tgcttctcaa gtaatgaaat aattccgttg 180
 tcacctcatg ctacatacag cagattgggtg ttacgagtta aatcctgtga aacttttagca 240
 ttctgtaacc gtggatgtcg agtttatgga gttccttggtg tggcgccctca agtcaagttc 300
 tcgtcaaaga ttgtaatctg atggcttcca ttgtgacttg tangcggctg caataaactt 360
 acttgatgca attattgc 378

<210> 56185

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G7

<400> 56185

acttgccaaa cgctgaacg aaggaggagg ggcgagacat cgcaaaggag ctcttgaatg 60
 acctctctga cggcacttca tcatccaaag cgaacaagaa cgacgacgag gagcactccg 120
 ccagcaccgc tggactcttc atcttcaacc tctccgtcgg cacatctctc ccgcagagca 180
 tgcccggcat cctggacatc gccagccagc tcgtttggtg gcagctagt ggcgccttgc 240
 agcaacgccg gcgactgcct tccggcgccc atcttctctg ccaacagctc ggccaccttc 300
 gcgcggcctt ccctgcggtg accagaagtg caagctgctc agcgagacct tgccctgcga 360

cgaggacacc tgcgattaca tagc

384

<210> 56186

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G8

<400> 56186

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gaaccttggt atattgtatc ctgc 84

<210> 56187

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G9

<400> 56187

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tggcggcggc aaatatgcat ggatgggatg agcgggtgac ttgtgacctc atgttagtat 120

cagcttggtg aatactatga aaaatgcagg tgccaatgcc tttcaccatg ctactagtta 180

gtttgtctgc tacttggtcc caagttaag aatgtgatca actgtgacac cttgttt 237

<210> 56188

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-H10

<400> 56188

cccacgcgtc cggctttctg ccgccgtcaa ggcttctgct gccacctctg cttaagaata 60

ttcagtgttt tgggatcttt gtaagggtcta tctcgttaca gcgaaagtgc ctctctactt 120

agatttatga gtaattgttg cttttttgta tgaacatggg aatggcttgt cggagtacca 180

gaggtttact atgttggttt atgctgtgaa cgtaagcgag ccatattctt tggatgacag 240

tctgaactat atgttaaaaa agaaaaagaa atacaataac atcaaggatt cctaagaaaa 300

actgccaaca tcatgtgaca actacttatg ac

332

<210> 56189
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-H11

<400> 56189

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tgatgtgcaa gggctctcagc catgtgctta ctatgcacac catgggtatt ggcaagtttg 120
ggccccacatg caagtttgat caccgatgg gtactccaaa ctatagtatt tcaacatctt 180
cacttactgg atgtgccaat cgcttcatat cctcaaaatt ttccttgtaa ctctgtgcc 240
ttcatatctg ccattctctg atctgcgtnc acaatacact caagtcaagg attcctctgc 300
taatccacca ccacgncctg gaactactta tggctctgtt gggctctatat caaagggtta 360
tgctcctnac acgcttaatc cgatccccgc ttctgcagct gctggcatgc aagcg 415

<210> 56190
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-H12

<400> 56190

gccatgaaca aggacccgcg cttcaagaac cgctacagcg cggcccagtt cccctacacc 60
ctgctcttcc ccaacacctc cgacaagggc gataacaccg gcgtcacccg caagggcatc 120
cccaacagca tttccatctg attcgatcga gtccctggcca gcgtttcacc caaaaaagca 180
gagctagcgg tgattcccgat atgtcatccg tttcattttt tacatgaatg agaagcgtgg 240
taataaaaag gttttagtgg gcgtgcgcgc cgtgtattcc ttgggtgtact ggtgctggcg 300
gtaaccactt attaccaggg atccttgtaa ttnttctgg tgggttccca aataataatg 360
tgaatatatg ggtccaaaaa aaaaaaaaaa agggccggcc 400

<210> 56191
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F2

<400> 56191

ggttatcact tcaaaaaaaaa aaaataaaaa aataaaaaaaaa aaaaaaaaaa aaaaagggga 60
taaaa 65

<210> 56192
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D5

<400> 56192

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ttttcttgct ctaggaagag cagggtttgc cgtgaaccat atggatgttg ctccgaagtt 120
tgcagggata gtgatgggag tctcaaacac ggccggggaca ctggccggaa tcgtcgggtg 180
cggcctcacg ggcaatattc tggaggcggc aaaggcttct aacaaggatc taacggactc 240
ggaaacctgg aaaacagtct ttttcgttcc agcatatctt tgtattttca gttccgtcat 300
ttttttgatc ttttcgacag gcgaaaagat ctttgaataa aggggtggta ttactttttt 360
tgccaattct tttctta 377

<210> 56193
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D6

<400> 56193

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cattttccaa gagattttca ttttctaaaa ttagttcatt tttacttgaa aaatgagaat 120
cctttggaaa aatggagtta ccaaactagc ctaataaaat ttatttatat gaccaggtga 180
aggccatgga gttgattgat aagttggaag ttacgaggcg aggaccatat agtgggtggc 240

taggaggaat atcgtttgat ggtgacatgc aaattgcact ttctctccgc accatcgat 300
tctcaacagc gccgagccac aacacgatgt actcatacaa agacgcagat aggctttggg 360
agtgggtcgc tcattctcag gctgggtgcag gca 393

<210> 56194
<211> 305
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-002-Q1-K1-D7
<400> 56194

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aataattaaa aaaatgataa aaaaataata attttaattt atttataata taataatttt 120
tcttatattg taaattaaat gtaactcaac tgattctatt tttttatctt cttgtctggt 180
taatgcgttt ttttacctat ttgattggt ttgttttaca tctttttttc cttatttact 240
tgatttttac taggtctgat cttattttctc tttagattat ttgctctatc tttatgatta 300
ttggt 305

<210> 56195
<211> 447
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-D8
<400> 56195

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ttcttctaga aactcctagt ttgacattt caagacaagg tggaggaggt cggatcaatga 120
agatgtactc tgaaactgca aaattatgca atttttgtgc ttatgaatat gaacgggtgca 180
aaaaaatggc ttctgctgct ttagcgtaca agtgtgtaga agttgcttac ctcaaggctg 240
catactacaa acaccgtact gctacaaaag atcaacagga acttcaggca gctgtacaga 300
taacccgagg tgaaccacca tcgccttctg ccttagatat tgataattta aatagccatg 360
gatcatcaaa tgccnctca ttaaagggtg acaattcacc tcatgtgcca ggcaatcatt 420

tgcctctagc tattcacaac caagccc

447

<210> 56196
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E10

<400> 56196

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cgccgcagcg atgccgtcgc acaagacctt ccggatcaag aagaagctgg cgaagaagat 120
gcgccagaac cgccccatcc cctactggat ccgcatgcgc acggacaaca ccatcaggta 180
caacgccaaag cgcaggcact ggcgccgcac caagctcggc ttctgagcgc gcggatcggc 240
cggtctcctgc gtcggaattc tagggtctct acctttcctt tggttttatc gatgtctctt 300
gtgtttctgt aagctagcaa acggttccag aaagcttttg ttaagatttt gatgacgcta 360
agaggatgga tgctactatg ctgtactcag gattccatgc tgcattgcga tgctaaatta 420
agaacctttg ctaccctt 438

<210> 56197
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E11

<400> 56197

agaaaaacaa gcagaagctg cttggaaaga aagtgagtat cgcgcgatca gatccaagca 60
agggtaagaa gagccgtgaa gcagggtcaaa caagccagga taatttacct ccgagtgggtg 120
gtgatgatgc aaaagcaaca ggatccagtg gaccagacaa tgaagtaccc aagggtgatg 180
caaaaacat aggggaagaat accctttttg caccacgagc tctgggttaa cctcttggat 240
ggacaaacaa ggatgagaag aaaccagatg ttgcaaggga gttgaaatca aa 292

<210> 56198
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E12

<400> 56198

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gagcccagct tgtaggaacc acatcgatgt atagtagttg atacgcatgt actgactaat 120
ttgagcaagt aaaatgttac tgctcacaat tatagcacac ggttcatctg tgaaaaacaaa 180
tatgctcatc taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa caaaaaaaag 300
aaatacagaa aaaaaaaaag ggggggcctc ttttgattta aaacctatat ga 352

<210> 56199

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E6

<400> 56199

cccacgcgtc cgcggacgcg tgggcggacg cgtgggaaaa tttgcaccat tcgggagtcg 60
tagtattgcc tgtatccatg gacgccagct gagccggtag catggggaag aagggtgcgg 120
tcgagctcat ggcaagctgc ccaggaaga agtctttgac gcggtccgtt aaggccgagc 180
tgaaatttcg cttctgcttg atcgggcgct acctgaatta tggccggttc gctcagtgcg 240
tgggcactgg cacaccgcgc tacttcgccg tcgttctgga gtacctatgc gtct 294

<210> 56200

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E7

<400> 56200

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ctgtttactc agttagatca tgtagtgtat cagttgtgta tctttgttgt tgtgcttcgt 120
gatctcaatt tatttctttg tgcacctaga ggttgtcaaa taatggtaac cgatatgtta 180
tctaaatata taataatgat tatgtgattg tgatttgggc cgcactactg ctgtaaagtg 240

taaacccttg tctctgcaac atgagttatc aacaaattta agatttgaat gt 292

<210> 56201

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E9

<400> 56201

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gtagttggtg catgctgtgt atcttaaggg tcacagcact agtagtgtac aactaggaat 120

atgtgtgtcg aatccatttg taaaatagca gccgttattg tttgtgtggt actgatccag 180

ctttttttta gaagaaaaca tgtgttgcca tcccagatg gctggacagg tgttgctact 240

<210> 56202

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F1

<400> 56202

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cccggcgccg acaccaccat gtcgtcgatg atgaacgcgc tggcaaactg gctggcgaac 120

ccgcgccgca acccgctggc gcgtctccac atgcacgcgc tctcctcgcg cctcaggaaa 180

tacggactga ggtacgacga cctctacgac cctacttcg atctggacat caaggaggcg 240

ctcggtaggc tgccatagga ggtggtcgac gccgcgcatcc agcgccctcaa gcgtgccatg 300

gacctctcca tgaagcacca gtacctcccg gaggaccttc aggcaca 347

<210> 56203

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F10

<400> 56203

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ctcgtccgc ttcttcatcg acaacgtcga ggatcctgtt cctaatagacc cctttcagtt 120
gctcccgaaa agaacttacc agcccagtac aatcaagcgg aaaagaaccc atggatttct 180
tacgcgtaaa tcgaccaagg gtggggcgcaa ggtgattgcc cggagaatcg ccaaaggcag 240
gcacagaatc tcagtttagc tagagcgaga aatctcagtt tagctagatc tcgctcgtag 300
cagccctgga tgttttctgt aacacagatt cgtatcgtgt tggttctatg gtttagcactc 360
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<210> 56204

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F11

<400> 56204

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caacactgag atatatgaga aggctgtcaa gatgctcgaa tcttactggc tagaggagga 120
agatgatgcc atgccctctg gcgacaatcc ccagaatggc ttcaactttg ggaaccagcc 180
ctctgttcca tcaggtggat tcaacttcgg ctgaagatgc ccatttgga tggcggctgt 240
gccattgtgc cttggcctag tggttggggc tagtcagagt tggggtagtg gcgtcgtcct 300
ccaaaacctt ggttcgggtcc cattggctctg gtctcaggtg tttgtcatgt cagtcccagt 360
cagcagggtc agtccttgtg ctgcatcacc agtgggtgctg catggaatgg tcagtcttca 420
g 421

<210> 56205

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D3

<400> 56205

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cttgattctt ctcttaccga gaccggagat gttgatgaca caggagacga tcaagttaga 180

gaggatgaag aaggagaagg gattgtgctc gctggtgccg ctgccaccag atacccttgg 240
gaaggaactg acagagatta taagtatgaa gagctgcttg gcagagtatt caacattttg 300
cgtgagaaca acccggatct tgctggtgat agaagaagaa ctgttatgag gccccctcaa 360
gtccttaag 369

<210> 56206
<211> 401
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-002-Q1-K1-F12
<400> 56206

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acaggaaaac cagccgtcta attggatcat tacagtgcag tgatctctac ctgtttctag 120
atgacagcac ccttttcagc aagcgaacga caactactct ggaagaatta atcagcctga 180
ataacaagac cgacaggaaa tgcagcaccg ctgaaaattc atgtgcgctt gcccgaaaca 240
tcctcgcgct caggagcagg cagtcaggca tgggtgggctt accagccacc aacctggaat 300
ccgacaccct aaagcaagcg atggagaagc tgacaacttt aaggagcagc tgcagcttca 360
tcgtcgacga gcacggggcg gttcaaggag tggtgaccca c 401

<210> 56207
<211> 292
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-002-Q1-K1-B7
<400> 56207

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gcctgtgatg aacgaatgag tatctgcaga agctttgttc aatgtgcaac caagtccgat 120
gtccgtttgc tctggttagc ttaaaaccaa cgcttccaat aatcctattg gtgtcttagt 180
ttccccctat agtggtatatt gctcggcttg aacatggcat acggaaatga aacttgaact 240
acctatggta ctgtcatcaa tttgagaccc ccatgattga caaaataaat ga 292

<210> 56208

<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B9

<400> 56208

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tcag 64

<210> 56209
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-C1

<400> 56209

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tcggtagctc cagcatgagt gtcggtggtg gttctgtgcc tgtaaaaact tgggtagatt 180
gatcgcggtg gatcagccgt catgctccta cagtctctat gaacaagcta agctataata 240
gtattttgct atcctatgat ccccggttg ttggcttatt gttgtc 286

<210> 56210
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-C10

<400> 56210

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tacgaggaag ggctccgagc caggactggc atttcccagg gcccagggtc cactccagca 120
gaagagcttg caaaggcggg ggttgcatcg gttctaaaga agaaccctcc agcttggttc 180
gcttacggcc agtactctgc tattctgtcg attttgtatt atgcaccgct atgggtcaga 240
gattgcctct ataagtttgt catgaaatgt tagtccttg aagaataatg gctgtatgga 300

ccaaagagag agctggacag gccagttca aancatttca ttgtactgac aagcctgtac 360
gtcgtactcc tataatggat atttagaact atgctctgt 399

<210> 56211
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-C11

<400> 56211

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gcgaggagg agccgcggc cgagaaggcg cccgccggga agaagccgaa ggcggagaag 180
cgggtccccg ctggcaagtc cgctgccaa gaaggcggcg agggcaagag gggcaagaag 240
aagggaaga agagcgtgga gacctacaag atctacatct tcaagggtgct gaagcagggtg 300
caccggaca ttggcatctc ctccaaggcc atgtccatca tgaactcctt cattaacgat 360
atcttcgaga agctcgctgc tgaggccgnc aagctcgcg gctataacaa gaagcctacc 420
atcacctccg tgagatcc 438

<210> 56212
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C12

<400> 56212

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tgatgcaacc ctaaaacctt cgctgagttg ctgagcttgg gggacttaca caacacgaca 180
atcaac 186

<210> 56213
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C2

<400> 56213

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tagtaatatt actcggatcg gccagtgtcg acatatgcaa aaaaatgttc tgtcgttata 180
cattggttcc aaaaaaaaaa ttaaaaaaaaaa aaataatatg aaataaaaaa aaaatataaa 240
ataaaaaaat a 251

<210> 56214

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C4

<400> 56214

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catccattca acaacagcag tgacgttcaa cgttgcaggc aaccttaaag tcgcggtggc 120
agtgttagtg tcgtggtcga tcttccggaa tccaatctct gcaatgaatg caatcgggtg 180
tggaatcacc ctggttggtt gcactttcta tggctacgtg aggcattctga tctcgcagcg 240
gcaggctgca gcccaggga gtctaggaac agcgcattgca aggaatcaga cggagatgct 300
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<210> 56215

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C5

<400> 56215

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catccattca acaacagcag tgacgttcaa cgttgcaggc aaccttaaag tcgcggtggc 120
agtgttagtg tcgtggtcga tcttccggaa tccaatctct gcaatgaatg caatcgggtg 180
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gcaggctgca gccccaggga gtctaggaac agcgcaggca aggaatcaga cggagatgct 300
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 acttggtgaa gagagaatta 380

<210> 56216
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-002-Q1-K1-C6
 <400> 56216

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 caagttcgat cttgggaaac tcatggaggt tcatggcgac tacaaagagg atgttggtgt 180
 gaagcttgag aggcctgtcg agggagatga ggctgggcag gaggttgctg ctgccgagta 240
 gtttgtttgc tacttctgta tctaggcgag tctggacatg aggttgctta tgacgtgaac 300
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<210> 56217
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-002-Q1-K1-C7
 <400> 56217

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 cgggcgcaag gtcggcgggc caaggaagaa gtcgggtgtcg aggtccgtga aggccggtct 180
 ccagttcccc gtcggccgca tcgggcgcta cttgaagaag ggccgctacg cgcagcgtgt 240
 cggcaccggc gccccgtct acctcgccgc tgtcctcgaa tacctcgccg ctgaggttct 300
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<210> 56218
 <211> 451

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 56218

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acgtcgaaga ggccagtgcc atacccaagc tcaagctgga gggcggcgaa ttgccaagt 180
cagggaaacat ggtgataaac acagaatggg gtaacttcta ctcgccctgc ctccccatca 240
cggagtatga ccaggccttg gatgaggaga gcttaaaccg aggggagcag atcttcgaga 300
agctgggtttc gggcatgtat ctcggcgaga ttgtgaggcg ggtgctgctt anaatcgct 360
cgcagtcttt catcttgggc gatgtcagcc acacgaacct caaaactcgc ttagtctta 420
ggactccgga catctccgga atgcacatg a 451

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<210> 56219
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-C9
 <400> 56219

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ttcatagttt gaagtgtttg tagatcaaca tacatatgta gagtagtggt gccgtgttgg 360
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aatgatgatc tcactcagcc tttaggaaaa atttt 455

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<210> 56220
 <211> 346

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D1

<400> 56220

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ctccaaaaaa gaagagcaaa cctgggaaat ctgtctatgc aaaagccaca gatactggca 180
tcgatcctga gacagctgct aaaagactta accttgactg ggactctgct gctgatatag 240
atggcgaaga ggaagacgat gatgaaactg aagtgcogtc tgcagtggga tatggtgcct 300
tgtatttggt gacagctttt ccggttatta ttgggatctc agtcgt 346

<210> 56221
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-D11

<400> 56221

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ctattgctgc aagtactata atcgggatcc tcgtgaacgg actggactcg cagcttccgc 180
tggtctggcg gttatcatta cagctgtaac tattgtaacc ctgtctgttc tgctgatatg 240
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tatctattgc aaaacatcag cggtgaaacta ctaactgaaa tattctttag attctttagt 360
cagtgacatt attgttggac tgcanaaagg aaatcaacaa attatgtgta acatgatcca 420
t 421

<210> 56222
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B6

<400> 56222

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gagcattata gcaagggaga aagaggttct ccaactgcaa gaaagcatgc ttctttacca 120
agggaaagag tggttgtatc gaaggacggt gatactgagc aacatattaa tgaccaggag 180
agaagtgcag attctgtcgc ccgcaccact gtgagccctc caaggtcaga agacgacgac 240
atgagcgatg tgacatccac aagcttgagc tctcggagct acctgaaaag tgcgagcata 300
agtgttttca agtgtgtcgt tgccacgaag aacacccggg aggacaatgg aatcactg 358

<210> 56223

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D12

<400> 56223

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agccaagggg agcttattgg ctgttgaagc ctgatgcaa ataaagtacg aaactatggt 120
ttttgtttta ctaataacta gcaaacatgc ttccgttgca ttg 163

<210> 56224

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D2

<400> 56224

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ggggctcatc tacgaggaga cccgcggcgt gctcaagatc ttctctgaga acgtcatccg 180
cgacgcgcgtc acctacacgg agcacgcccg ccgcaagacc gtcaccgcca tggacgtcgt 240
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gccgctggtg gccgtggcaa aagtcttggg tcgcggtcaa gaaatcgaga gtattctgga 360
tgacgtgctt aggttcgtag tatttattat cactagtgtt tattgttagc cgggtgttggg 420

tcgaccactc taagccactg tcaaacagta atatatgagt accgaatttc

470

<210> 56225

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A10

<400> 56225

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ccccgcgcaa gcagctcgcc accaaggcgg cgaggaagtc ggcgccgacg accggcggcg 180
tgaagaagcc ccacaggtac aggcccgga ccgtggcgct gcgcgagatc cgcaagtacc 240
agaagagcac ggagctgctc atccggaagt tgccttaca gcgcctggtc cgtgagatcg 300
ctcatgactt caagacggat ctgcggttcc agagccacgc 340

<210> 56226

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A12

<400> 56226

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tggaccagga tgctcgaaca caactggctg tatgtacatt tgtgaatggt gaataaagaa 180
ggggtaataa actgctgcga aataaaaaaa aaaaaataa aaaaaaaaaa taaaaaaaaa 240
agaattaaa 249

<210> 56227

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-A2

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tatacttagt taggctcaat gttagcacia acagttgatg agcaagttta aatttagagt 300
acacttatgt atgagttatn tgacaatgct tatttatgag atattgaatg atatttatct 360
atattatatt g 371

<210> 56228

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A4

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cggttgaatt gcatgcattg catgacgttt cttgttggtt atttgttttc tcttgccatg 240
cttacagtat tgggtgttggc aatttaatcg tgattttttt gtacctgttt cgaaaattgg 300
tgggcagctt acccgcgctt gtgc 324

<210> 56229

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A5

<400> 56229

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tggccgcgca atgatggatg agtacttggg ggggtgaaatc gacgcgtcaa cgatcccttc 180
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tggcatcaag atccttcagt tttcgggtcc tctggcaatt ctgggcttag ctggtgccga 300
taggatgtac accaagtccg agtctgctta actttgtt 338

<210> 56230
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A6

<400> 56230

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gcagccgacg ctctgcaggt tcccgaagca gatgcggggc ccctacacga aggcgaccc 240
gtagctcgtg aggtatagaa ccctctagct cgccactttt gactagcacg aacacgcgcg 300
tagggtctac 310

<210> 56231
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A7

<400> 56231

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ccaaaagaga ccacaatcac aatcccaatt gcaatagcaa ataaacatat aactac 116

<210> 56232
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A8

<400> 56232

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ggccaccagc aacgagtcgc tggagaatgc cttcggcttc tacggcgaga tcctcgactc 180
 caaggtcata accgaccggg agacggggag gtctcgcggc ttcagcttcg ttacctttctc 240
 ctccgagaac tccatgctcg acgctatoga gaacatgaac ggcaaggagc tcgacggccg 300
 taacattacc gttaaccagg cccagtcccg tggc 334

<210> 56233
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A9

<400> 56233

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 cgtacttgca tatgttataa gcgattaggg ggtgccattt tatgggtttt aattttcctt 180
 cgggtttactt gggaggcctt ggtatttctt tgggtatttt aaattaattt gcttggccgt 240
 atttttacat ttcgaaagt ggaaaaattt tgaattgtcc gattttattt gctt 294

<210> 56234
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B1

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 <211> 425

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-B10
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 cgcctaggtg acctttaccg ctacttggag gactcacaat tttgcttttc cgattgtcgt 180
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 cgatcatcgg ttactactgg atcatggttc gccatcgatg ctatgcacaa ggccacgcta 300
 gagctctctg cttgttgacg tgaatatngc tctctccctc atgtttaagc ctaagcagtt 360
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 acacg 425

<210> 56236
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-002-Q1-K1-B11

<400> 56236
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 gagaaggcgg ctccggcgga gaaggccccc gcggggaaga agcccaaggc ggagaagcgg 180
 ctacctgcgg gcaagtccgc cggcaaggag ggcggcgaca agaagggtag gaagaaggcg 240
 aagaagagcg tggagaccta caagatctac atcttcaagg tcctgaagca ggtgcacccc 300
 gacatcggca tctcctccaa ggccatgtcc atcatgaact ccttcatcaa cgacatcttc 360
 gagaagctcg ccgcggaggc cgtcaagctc gcccggtaca acatgaagcc caccatcacc 420
 ttccgcgaga tcc 433

<210> 56237
 <211> 387
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B12

<400> 56237

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tccacgcgct cgccgccggc aagaaggcca tcctcttcgg cgccccggc gccttcaccc   180
cgacctgcag caaccagcat gtgccaggct tcatcacaca ggctgagcag ctcaaagcca   240
aggggtgtaga cgagatcctg cttatcagcg ttaacgaccc cttcgtcatt aaggcgtggg   300
cgaagaccta ccccgagaac aagcacgtga agttcctcgc cgacggatct ggagcgtaca   360
ccaaggcgct cgacctcgag ctcgatc                                     387

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<210> 56238

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-B2

<400> 56238

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tgaatggctt ccaaagggct ggggtgatgga ggtaagagct ggtggggaga aggcggacaa   180
gatgtacaag ttttatgtcc actcaatcac tgggtctacga ttgctatcaa agcaagatgt   240
actactctat atcaatgagg caaagggtctc tgggtgacga accaatggac aatgggacac   300
aacttctgaa gataacatac ttccanaagt ggactttcgg ccaagtggat tgcctgaagg   360
gttgggtgaa agaactagtg tacagaaaaa ccaag                                     395

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<210> 56239

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tcacctatac tgacagcgct gggcagaggc gcgcgctgg gcgttggggg ggacttggcg 180
gcaatgttcg aacgatcgac cttggcaacg ccgaggatgt cagggaagtc tcgggaacat 240
acggcgcat tgaaggtgcc actacgctga cctcgctcag gctcgtcacc agcagcagaa 300
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<210> 56240

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B4

<400> 56240

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tgtgtttcag tcacatatat gatctagtct gtgtgtcaat gtgtcgaaaa acatgtctgt 120
gattttgtta tatgaatgta acgcgcaatg aaacatacag gactagctgc ttgcttg 177

<210> 56241

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A1

<400> 56241

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tgacatgtta ttgcgggtgg tcaaggctca tgattcagag cagaagatgc acataaatac 120
tggtgaatga tgccatcgac gatgatgaat tgatgaaacg atggatgatg tcatcgatga 180
aagatggaat ggaactcaaa ttttgggtgg cgcacaagtg tggagacata aatttatata 240
tacttagtta ggctcaatgt tagcaciaaac agttgatgag caagtttaaa tttagagtac 300
acttatgtat gagttatttg acaatgctta tttatgagat attgaatgat atttatccat 360
attatattaa aaaaaaaaaa aaaaggccgg 390

<210> 56242
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B5

<400> 56242

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tttcaaaaga acaaagtga aacttgtaa caaagagtgt tcagattgca ctggaagccc 120
gtgagatggt cttgaaggaa catttgaga aatccactcc tatacagcat cctattctgg 180
ttgcagcagc tctagggagt tatggggcctt atcttgctga tggctctgag tacagtgggg 240
attatggtga agctggtacg aaagagttcc tgaaggactt tcatcggcgg aggccttcagg 300
ttcttgctga agcaggcccg gatttgattg cttttgaaac gatccccaac aaatcggaag 360
ctcaggcata tgttg 375

<210> 56243
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G12

<400> 56243

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ccgtgccggg tccaacacgg ctgcaagtga agcaaccagc ttacggaaga gctggaactg 180
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tggtgtgtat tctgtggatg ctccgtgttt ctggtgggat tcaagttcaa ccctgggaat 360
aatggatttc 370

<210> 56244
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G2

<400> 56244

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gcgggtggtg gtcaaagttc tctgggttac ctctttggaa gcggtgagcc ccccaaacca 180
gcagtggcac cagctgtaag tgctccacct gctgctgcag gtgctccacc tgctgagaaa 240
ccacctgctg caaagcctga tggcaccagt cagattgctg ctgggggttac cagccaaacc 300
aataactacc acagggccga cgggcagaac accgaaact ttcttacgga cgttctttg 360
ac 362

<210> 56245

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G4

<400> 56245

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gtttggaatt tgcgttttca atccggtatt gaaggataa taattaacaa ct 112

<210> 56246

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G5

<400> 56246

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gatctatcta atctgtaata ttcatgttt cagccttact gcgaaagcac cgtaccggg 180
ttccccctca gatgttacac ctgtgaagaa ggagatgtcg gatggtcagc catggcttgg 240
gctgggacct cagatcgcca atcctgatct gagcttgtcc aaggaggcga gccagtgatc 300
gatgatccag catcaccatc ttcaaaactg cgatactcaa cagccatgtg tggaagtgtt 360

ctgttttggg cccctatcat tccgggtttt ttttcgcatg gataaatagg ttgtacgaaa 420
gtaaagaaca cagcta 436

<210> 56247
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G6

<400> 56247

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acctgagcgg catcgcgggc atcatcaaga gcctgcaccc gagctgggtcc cccgcggcga 120
tcaagtcggc gatcatgacg tcgtcgggca cggcggacca cgcggggcgtg ccgatcaagg 180
acgagcagta caggcggggc agcttctaca gcatgggcgc cgggtacgtg aaccctccc 240
gcgccgtcga cccggggctg gtgtacgacc tcggcgccgg cgagtacatc gcctacctct 300
gcgggctggg catcggggac gacggcgtca aggagataac tgggcgccgc gtcgcctgcg 360
ccaagctgaa ggccatcacc gaggcggagc tcaactacc gtcgctgggt gtgaagctgc 420
tgtcccatcc ga 432

<210> 56248
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G7

<400> 56248

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aaaaaaaaa aaataaaaa agacaataaa aaaaataaat aaataaataa taatgaaata 120
agatcaaata catagttagt actgtaataa caaatagagg aaaaaagcgt gcgagctgtt 180
caacagtgtt acaaactggt atatcattcg tgttcactat ttgcagtggg ttcgagaacc 240
tcttgatta tgataatttt ggactcttgt ataatcatta atgatgatgg tatatat 297

<210> 56249
<211> 330
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G9

<400> 56249

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cagctcgcca ccaaggcggc gaggaagtcg ggcgcgacga ccggcggcgt gaagaagccc 180
cacaggtaca ggcccggcac cgtggcgctg cgcgagatcc gcaagtacca gaagagcacg 240
gagctgctca tccggaagtt gcccttcag cgcttggtcc gtgagatcgc tcaggacttc 300
aagacggatc tgcggttcca gagccacgcc 330

<210> 56250

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H10

<400> 56250

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gagtggaagc gcaactggcc cttcctcacg ggtttcgcca tcaccggatt catcatcacg 180
aagatgacgg ccaacttcac cgaggaggat ctcaagaact ctaagtctgt ccaggaacac 240
aagaagaagc actgacgaac caggtgaagg agttgtcaga aacgcatgtt tggccagcca 300
gttctgttat gcttttgaat gaaaaattta gacccttctt tctcgtttcc ttaatcgaaa 360
tgc 363

<210> 56251

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H11

<400> 56251

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 gaggtttcaa.aacatccatc cgtccatcgg ccccgctat ttgtggatgg tgtttctcgt 180
 gccatttttag ttcagctgta ttgatgcttc gtcattgatg tgtattgtac cattcggttct 240
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<210> 56252
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-H12
 <400> 56252

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 gccggcagga acgacgggag aggagggcat ggagccggtc gagcggatcg agtcggccgg 180
 gacggcgctg gggaagcgtc cgaggagcag ggtgctgccg cgcacggcca gcatggtgac 240
 ggtgccgtcg gcggcgaagc aggggcgcca ggagcggggc gccggcgtgc cgtcgtcctg 300
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<210> 56253
 <211> 246
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-H2
 <400> 56253

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 ggcgcacgga caagtcacgt ggaagtacga gttacaagtg aatatacggg ggatggaccc 180
 tatatgtagg aagactggct tcacatacgc gagactttgt tgcaaattca aggggggatg 240
 caactg 246

<210> 56254
 <211> 280
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H3

<400> 56254

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gagagagcgt tcgttcgctg cttgctcccg ggtccagcgg cccttgaggg ctcgaaaccc 120
gatcgtggcg tctgcttcgc tcgtgtgtgt gtgtgtggat gtgtttttgg cgtcgatatg 180
tgttgagaac tacgttacca cggatcacca gatccgctcc aaaaaagca ataaataact 240
agtcagacta gacactagat caccaatatc tagcacctat 280

<210> 56255

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H4

<400> 56255

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ggcttccaag gaggttgatg gtgaatttgc cagatgcac aaataggaga aagattctta 180
gtgtaatact agccaaggaa gatttggcag acgatgttga tctagaagct atagctaact 240
tgacagaagg gtactcgggt agtgatctca agaattcttg tgttactgct gctcatcgct 300
ctattaggga gattcttgaa aaggagaaga aggagagagc ttcagcagaa acagaaaata 360
ggccattgcc tctgtcgac actagcaatg atgtccgtgc attaagaata aatgatttca 420
tacatg 426

<210> 56256

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H5

<400> 56256

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gatttataat atggctgata gtcaatttga gagctgcagt ggtatagctc aagattatca 180
gtgtaatact tatatttgac ctgtgaacag acaaacatac tctcgacatt attggttagt 240
tctgataact gtactg 256

<210> 56257

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H6

<400> 56257

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tggaggagga tcttgaggca gcagcccga agctgacaga gactgcgttc tcccgtggga 300
gcgggcgataa catcacctgc atcgttgtga agttcgagca tgacaagcct ggccggcgcg 360
gtactcggc ttcaggcgac aagagttgat tccatttgcg gttgggtata cgc 413

<210> 56258

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H8

<400> 56258

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caccggcgtc ggtggtcctg tcgtgctaca tgggtcggat gaaggttcgc gagaccttac 180
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tagaaggctc aggctcactt gaatggatgc actggtcact gatagc 286

<210> 56259

<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G11

<400> 56259

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acggcggtgca cctgacggag gccgcctacc acgccatcgc cgacagcatc ctcaacggggc 180
cctacaccag ccccaggctc ctctgatccg aacgcgggcg gtgatgctcg tcgtccgtcc 240
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tgctagctgt ggtaattaaa cgaatgctgt acgtagtact ccctactact agtgtgagag 360
tgtgaccgtg ttgggactgg aactg 385

<210> 56260
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E5

<400> 56260

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ggatgagcaa ggagattact gccctcgcgc cgagcagcat gaagatcaag gtcgtggcgc 180
ctcctgagag aaaatacagt gtttggattg gtggctcgat ccttgcgtcg ctcagtacgt 240
tccagcagat gtggatatcc aaggatgagt acgatgagtc tggccctgct atcgctccacc 300
gaaaatgctt ctgagctagc tatctgccgc gcctttcata gcgtgtcaag gctgtgagat 360
ctgcggtggt gagttgagtg tctctatgga gtatcacata ctttctg 407

<210> 56261
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E6

<400> 56261

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aattaccttc tctgctctgt ggcaaccctt caacgctctt cgatctgttg ggaaagtttt 180
tgaaccattt aaggacccaa ggggtgatac tactgctcct aagttgctct ttattgccct 240
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aaatccatca gattgggtgt cttctctggc tctgctcgg caggtttgat atgccgggag 360
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aataccgagt gaca 434

<210> 56262

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E7

<400> 56262

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ttcgctgagg actgctgtct gtagctcctg tcgctccact caagatccag caggagtgga 360
gcaactacga taagaactta cgcgacatca cgattccttg aagcaacaag ctgcgcaaca 420
tgaatactat gcta 434

<210> 56263

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E8

<400> 56263

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 ctgaagatga acaagaaatt gcagcagctg aaagcgccca agaagaaaaa ccttcaggcg 180
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 tgaagcatcc taccaccatt ccatggcaaa cagctcggca tcagtaattg cttggatctt 360
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 cactatca 428

<210> 56264
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-F1
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 tgcagacgcc agcgcaccag caccatctta aggccgacgg cgacgaccgt gacgggtcccg 360
 aagccggcga caaccagcac cgtaagcaact gacgcgcttg cgctttcgag cgtgcatggc 420
 ctgtgt 426

<210> 56265
 <211> 80
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-F11
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cgacactagg atttcggagg

80

<210> 56266

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F12

<400> 56266

aaaaaaaaa taaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 60

gggaaaaaaaa aaaataaagg ataataaata aaaaaaaaaa aacaaaaaaaa aaaaataaaa 120

aaatataaaa agacaacaaa aataaggggg gggcggtttt ggggttcctt tttttggatt 180

ctgggggctcg cgagggtttt tactcctttt tggggcccct cctcttgata ttttggggcg 240

cttggttttaa tcgttctttg ggggtttaccc ctgggggttc cccatttttg ggcttttgtg 300

aaacaccctg gttttccg 318

<210> 56267

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F2

<400> 56267

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tttacagtgg gcgctcctgt gcttgacaag aggataatga gtctcccagc ttaccctggg 120

cccggaattg acgcatgata tcttgccctcg ggggaatttt ttgtcgacag atcaacaaag 180

aaocgtggag cctgactggt ttgggttatg tgtagtggca tgcctgaaat ctatgcattg 240

catgcccccg tactaccac tcactcgtat tttatctagt tgtagccac gacgaccta 300

tgttgcacca gcgtacaagt 320

<210> 56268

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-001-Q1-K1-F4

<400> 56268

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tgctgcagtg gacgctcttg acaagaacaa gaacaccccg ttgcattacg ctgctggcta 120
cggccgcaag gagtgtgtgg atcttctttt gaagcacggg gctgctgtaa ctctccaaaa 180
cctggacggg aagacaccta tcgatgtcgc caagctgaat aaccaggacg aggttctgaa 240
gttgctcgag aaggacgcct tcctttgaat accatgcctt tcgtatacac ttggactctt 300
ggtgtcatgt ttttttttca taccggttgt tttgtctgg atagccacat gtcatgggcc 360
ttaaactcgn tatgcctaaa tgctattagc atgtgggtgt tcg 403

<210> 56269

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F5

<400> 56269

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aaaataaaaa agggaggtaa gaataataaa aatgcatgca tcattatagc atgtttgata 120
gggtttcgtt attttat tttt gttgccttaa ttttttcaac tggccgactg tttaaacctt 180
ggtgtttgcg aactcagtgg cgtttcccaa ctttttcgtt ttgcctgatg tcgtcttttt 240
gctggggctc gtatttatgg ttattcctgt tattttcgca ttttgaatgg gttt 294

<210> 56270

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-001-Q1-K1-F7

<400> 56270

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ccagccagcc agcacactct acgagtcgcc atcttccact ccaccgaggc agtccaagc 120
catggccatg gagaaggccg cctccttctt ctcctccttc ttaggcggcg gcggcgggga 180

gcccggcggcg actgtgaaat ctatcttcat ataccctatc aagtcctgca ggggtcttgc 240
 cgtgtcacag gcgcccata cctccactgg gttccggtgg gatcggcagt ggggtggtgg 300
 gaacgcaaaa gggcgagcat acaccagag ggtggagccc aagcttgctc tgggccangt 360
 ggagttgccc gccgaggcct tcgctgagaa ctggcagccc acgcccgacg accacctggt 420
 tatcagagca cccgga 436

<210> 56271
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-F8
 <400> 56271

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 gcagctccgc ccgtgcccga ggtggccgag ccggaagcac tgcccaccgt cctccgtgcc 120
 aagccggagg gttgcttgcg cgtcctcggc ggccgacgcc gacgtggtcg acctcttcga 180
 cgccgctaag ctactgtgg acaagttcgt gacgagcggc atggtggtgg ggctcggctc 240
 cgccctcgcg tccgccctgg ccatccagta cctcggcagc cgccttcgcc ggggctctct 300
 cacgggcatc accgcagtga cctcgtccgt gctcagtgcg agcgaggcag acaaggcaag 360
 gatacgggct aacagctacc aggaaggcac ccagattgat tttgctttca ctgatgctga 420
 agcgatcgaa g 431

<210> 56272
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-G1
 <400> 56272

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 ccatgtcctt ccgacctatg gttacgcaag gatgtacagc ggtgtatcgc tgaactcttt 120
 cctcaaatac atcactgtcc aatccctaac agaggaaggg ctgagaaagc tggggccgta 180
 cgtcgcgaag atggccgaag tggaggggct agaggcgcac aagagagccg ttacccttag 240

gctgcaagag gttgaggcca acataactgt ctagctgctg tccatgggtct attgcaaatt 300
 tgcaatgttc agactcgatg tgggatgctg gagttcttcc ctaggaacct tggggaactg 360
 gactattgat gtcttccaaa catgctctgg aatgttagaa agaggcggtt caactgggtgc 420
 agctaataat gctca 435

<210> 56273
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-G10
 <400> 56273

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 tttccctatt gaatctaagg ggcggcaaaa gaagctttat gaggttgagg ctgtgacagc 120
 aatttgtgtt acctgcttcc tgataagatg tgttggtggt gcattatctg cgtttgatgc 180
 cgatgtatct ctccagggtt tggaccatcc agtcctagat ttcttctatt atatgcttgc 240
 ggagatactg cttctgcgc tagttctctt cgtccttcgg aagcttcctc ccaagcgggt 300
 ttcggcacia taccacccta ttaactagag agtttttttt aatgatgtta catgctaaga 360
 actccggata atctgaaact actggaaacc tac 393

<210> 56274
 <211> 182
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-C6
 <400> 56274

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 gtgcgcttca attggcgcc gccgcattaa ggttggtgtg accggcccca aggggtacct 120
 gggaaggcgg ctgtgccccg cgcttgccgg cgcggggccac gccgtgcgcc cgcttggtcg 180
 gc 182

<210> 56275
 <211> 235
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C7

<400> 56275

gttctgagac cggcgacgag gaaagatgat gacgacaaca aacgttgcg tgccagggtcg 60
tcaccgcgtt cgctgccaaag aataataacc cgctgccacc ctagaggccg cgactactat 120
tacgcccttt gcttgcatgt catcccggtg tagacttggtg ctcatgcgct tcaactgcac 180
ctgttgatc tggatggatt tgaccaaag caaattgccac acatttttat tattt 235

<210> 56276

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C8

<400> 56276

ctggaacgat catatacaca atcgagttaa ataagttgtg atttgactt gac 53

<210> 56277

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C9

<400> 56277

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gtcgtctggcg gtgcgcgcgcg ccccggtgag gcgcgcgatg tcctcctccg tccacgacga 120
cgcctatgag acggccaagt gggagaagat cacctacgcc gggatcgtga cctgcaccct 180
cctggcggcg tacaacctgt ccaagggccac ccccaacttc gatgagccgc cggcgtaccc 240
ctatcttcac atccgcaaca aggagttccc atggggccct gatggcttgg ttgagacgaa 300
ggaccaccac tgagccctga ttagcacacc 330

<210> 56278

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D1

<400> 56278

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tggcgcggca agggcggcaa gggcttaggc aagggtggag ccaagcgcca ccggaagggtg 120
ctccgcgaca acatccaggg catcaccaag ccggcgatcc ggaggctggc tcggaggggc 180
ggcgtgaagc gcatctcggg gtcctctac gaggagaccc gcggcgtgct caagatcttc 240
ctcgagaacg tcatacgca cgccgtcacc tacaccgagc acgcgcgccg caagaccgtc 300
accgtcatgg atgtcgtcta cgcgtcaag c 331

<210> 56279

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D11

<400> 56279

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ggctgtcggg aagggtcttc ctgaattgaa tggcaagctc actggcatgt ccttccgggt 120
tcccaccgtg gatgtgtcag ttgtagacct cactgtcaga atcgagaagg gggcctccta 180
cgaggaaatc aagaaagcta ttaaggccgc ttctgagggc cactcaagg gtatcatggg 240
ctacgtgcag gaagatctgg tttccaccga cttcaccggg gacagcaagt cgagcatctt 300
cgacgccaaa gccgggaatg cctgaaacg ccacttcac aagctcgtct cgtggtagca 360
ca 362

<210> 56280

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-001-Q1-K1-D12

<400> 56280

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gggtggagcc aagcgccacc ggaaggtgct ccgcgacaac atccaggga tcaccaagcc 120

ggcgatccgg aggctggctc ggaggggcg cgtgaagcgc atctcggggc tcattctacga 180
ggagacccgc ggcggtgctca agatcttcct cgagaacgtc atacgcgacg ccgtcaccta 240
caccgagcac gcgcgccgca agaccgtcac cgccatggat gtcgtctacg cgctcaagcg 300
ccagggccgc accctctacg gcttcggagg ctaggcgcct cttcgtagct ggggaatgct 360
tanggtgata cgtctctgtc gct 383

<210> 56281
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D4

<400> 56281

cccacgcgtc cgcgagcgtc tggacgcaca tgccatacac gctgcagcta ctcaactgaa 60
atgagcatcg tatcgagctc atcgtgaata aaacctgaat caccacaac aatgttctaa 120
gtactcagcc agtggatatt actgggtgac ctactgcagt ctgcgtcgga atagatatgt 180
ggatttactc ttcgtggggc agtattgtac tgggtggattc ataaggactc tgattatggt 240
gcgttcggaa cttataataa taagcacatg aaattgtgct tcaaaataaa 290

<210> 56282
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-001-Q1-K1-D5

<400> 56282

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ctgacctgcc ttttctcccc ccgcagatca tcttgatcg ggagacgcag aggtcccgcg 120
gcttcgggtt cgtcaccttc tccacggagg acgcgatgcg cagcgccatc gagggcatga 180
acggcaagga gtcgacggc cgcaacatca ccgttaacga ggcccagtcc cgcggcggcc 240
gtggaggcgg cgggtggcga tacggtggcg ggcgccgtga tggaggcggc tacggcggtg 300
gcggtggagg ctacggcggt ggtcgtggag gctacngcgg cgggtggtgga tactgtggtg 360

caaaccgcgg cggctgctac tgcaacaacg acgggaactg gaagaact

408

<210> 56283

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D6

<400> 56283

aaggtaccgc aactgtcggg tctcaggctc cacgagactg cagcatgcgt tcagaggacg 60

caccctgacg gatcggtcac ctacgttgac gtctacatcg gcacatacaa actcatcagc 120

gcatgccaat aagctaggtt ttgactaccc tatgctgtca tgcttaggct actgcggcag 180

ccggtacacc ttacacctga gcgtaggatg ctgcggtacg aagcaggtta actctacgtc 240

ggtggtggtg gggaa 255

<210> 56284

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D8

<400> 56284

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cagcgccgcc cgccctcacg cagctctctc cgatggcgcg cacgaagcag acggcgagga 120

agtcgaccgg cggcaaggcg ccgcggaagc agctggccac caaggcggcg cgaaagtcgg 180

ccccggccac cggcggcgtg aagaagccgc acaggtttcg ccccggcacc gtcgcgctcc 240

gcgagatccg caagtaccag aagagcacgg agct 274

<210> 56285

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D9

<400> 56285

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aaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaagaaaag aaaaaaaaaa aaaaaaaaaa 120
aaggctcttt ggtctatcgg tttctagctt acgtgctctt gcatgcaata tcttaacttt 180
tttatattgt cacctaattt caattaactg gccgacagtt cacaatttcg ggcctgggaa 240
taccttggcg tttcgaaatt tactttgttt gcatcatatt c 281

<210> 56286
<211> 270
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-001-Q1-K1-E1
<400> 56286

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ttgaccgccc acgccatcat gatgaacaag tctgggcaga ttgtcaacgc ctatgcctga 120
gcgctagact gcgatacctc caacatcgtc tgcaagggtg ctgagctcat taccaacatc 180
gacaggcgat ctgtcacgga gctcggaag gagtctaagt ttctgaagaa cggatatgct 240
ggtatggtga agatgattta caccaagcct 270

<210> 56287
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-001-Q1-K1-C5
<400> 56287

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ctgcatcggg ggagaagcga gggcgtggga ggccaagaaa gaagaatcca tcggcagggt 120
ggtctgcagg aaccagggat actgcattaa aggggattaa gagagggcct gggaggccaa 180
ggaaggccag gccttttgaa actgagtctg tgaaaactgc acttgagggtg tctagggact 240
tgacagaaga tgggcctcaa aaggatgggg atcttgtgtc aggggaagaaa gcagatactc 300
atggtgtggt ttggtagtgt caactgagga ggtagccatt gctcccatgg atgctgggtg 360
cgcagacgcc aagggttgat ctgatggatg tgggcaccaa gagtcactag tgctctgatg 420
gtgcgaaca 429

<210> 56288
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E10

<400> 56288

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 ttctaataata atccgatgga gttcactatc ggcttttagct tttgtgttcc gtaatcttgt 120
 taacaagaat gcttctgcaa ttactgtcaa atcaccactg gatgttctta attctgtgtg 180
 aacttcttta atcttataga tggacctcaa aatgattctg aacccaacta tttgaatgtg 240
 gtcatgcagt gagatagaaa agttgaaact ttcagagctt acgtgccggg aaggcattgt 300
 tgaagttgca aagataatth atggagtgca tgacgaagcg aaaggataaa gcttcgagtt 360
 ggagttgagc tggatctgcg atgaatcg 388

<210> 56289
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E11

<400> 56289

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 ggctgtcggt aaggttcttc ctgaattgaa tggcaagctc actggcatgt ccttccgggt 120
 tcccacogtg gatgtgtcag ttgtagacct cactgtcaga atcgagaagg gggcctccta 180
 cgaggaaatc aagaaagcta ttaaggccgc ttctgagggc cactcaagg gtatcatggg 240
 ctacgtggag gaggatctgg tttccaccga cttcaccggt gacagcaagt cgagcatctt 300
 cgacgccaag gccgggattg cctgaacga ccactttatc aagctcgtct c 351

<210> 56290
 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E12

<400> 56290

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tgatatatta tcaactttccc atgtagtgtt ggctataggc ggcttctttt cagtgaacat 120
attgtctgtt tcagcgttct tgctggatgg atagtaaata gctgtaccat ttgggttg 177

<210> 56291

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E3

<400> 56291

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gggggggagta cctgtacggg gacattgact cttaaattatg tacgaccatg ttccctgtca 120
tctctaacat tatgagcata gatattactg tccttgctcc tagcagcttg aatatcaatg 180
tctatgcgcc ttctgaaata aaatacatc tttgaattgt ttactctatc cttgtatogc 240
tcatatcggt ccattaaatg ttaatatcca aggattgatt actaatgatt ctgttccttt 300
tatattccac ctaaaatgct tttt 324

<210> 56292

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A9

<400> 56292

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tctgcctgtg catgttatta ttccctcaaat gtgtcgtctt tatcagtaca ttgccccatc 120
acaggcacag acatactgtt agatgtatga gcaattgtcg gcttgtaatt tattggtaga 180
gctatgctcc ccctaacatt tatatgtata tatgtgctca tgattcttg 229

<210> 56293

<211> 105

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B1

<400> 56293

cccacgcgtc cgagcttcca gttgcctgta cacttcatta aatcgagcac tagcaacgga 60
gatagctaga tagaggaaga ctaatattac tagttagcac tagat 105

<210> 56294

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B10

<400> 56294

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cttgtaatca atccatggta acacatcgta gcacaagaga gagcgccagt cttgcaggag 120
agacatccat tctcctgctt aaactccaca aacagatagt agcctaaccc agacagaatt 180
tctgaagcct aaaagatccc cccaataccg acgaaaccac tgcattccaa tcagttgatt 240
gcattagcca agcacaagcg c 261

<210> 56295

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B12

<400> 56295

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggggggcc 180
gttttacagg gaccaggtt ttgttcccct ggtttgcaac gtaaagattt tttttagggg 240
ccccctaatt taaataaagg gggggtgttt taaaaaaggt ttgccgggaa a 291

<210> 56296

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-001-Q1-K1-B2

<400> 56296

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gttgaaagtg ggagtatcta acttccgaaa tgcttgggaa aacatggatc cagagactga 120
gcgagttgac gagtatgggc ttggaataag ggagagcttg gctgaagctg taagtgtctg 180
tataagcatn cttggcatgc agccttgtga gggaaactgac gtggtcccaa agcaattcag 240
gtcgcacact tgtctgctct ctggtgtggg tattggcaac gtgaaagtct tgggtgagact 300
gtcattttga aatagtgcac cgaaagaggt ggccatgaaa gctgcagtta gatctgatga 360
tccagagatc agtgacagga tccacgaaat tgtcgcta at ggctaaaaac aatggtagta 420
tctttttttt tact 434

<210> 56297
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B3

<400> 56297

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aagatcccat caaagcttgg ctatgggcct caaggctcgc cacctactat tcctgggtgga 120
gcaaccctca tatttgacac ggagcttgtc gctgtcaatg gagaaccaac caaccaatct 180
gacgagcttt agattcatca aacaaatgaa tccattcacc tttttactcg gaactcagca 240
gatgtaatac tttccaagaa atgagccttc attccctgcc actttcatag tttctttcgc 300
tgttccacac tgacatctat gattttttgga gcaaactctg atcttgtttg actagtttac 360
acgtttgtgt gtggaatctg aagagctggg ctg 393

<210> 56298
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B5

<400> 56298

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 ttgacgtcgg caacgtggtc atgggtgactg gtgggaggaa caccgggcgt gtaggagtca 120
 tcaagaacag ggagaagcac aagggcagct ttgagaccat ccatgtgctg cttggagctt 180
 tttgctatgt ctagttttct cctatttggt gtacaggaaa acatagaata gaattcaa 240
 ttggtggctg caaaagtgtg gagactttaa ttcataataa gttaggctta acattagtgc 300
 aaacagttgt attttagttt agatttagag tacacttatg tatgcattgt ttgacaatgt 360
 ttatttatga tatattgaat ggtacttatt tatattatat taattataat gttgggtcaat 420

<210> 56299

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B6

<400> 56299

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 aaaatcttcc aggcaaaacg tggaccaact taaatcagca gcagcgtcag gtgggttaggc 120
 gctagcgaat taaattaagg ccggtcgaa ctcactgtct tgaaagattc agatgttcta 180
 atgtctaata ctttaccacc agtgggttagt ggttgctggt tcatgcttcc cagggttagag 240
 tcacgatttt ttttttttga ggctgtagaa agatctgacg atacttcatg tgtgctttct 300
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<210> 56300

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B7

<400> 56300

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 atagcttgaa gagatcatac cttttgtttt tattgtcttt ctacattcag acatctagga 180
 gctttacgaa ggaagagatc tctaaacata acacaaggaa ggactgttgg atcgatcatca 240

aggacaaggt ctatgatgtc actccttatg tagaggagca tccaggcgga gatgccattc 300
 taaataaatgc tgggtggtgat tccacagagg gcttttttgg gtctgtaact tatattgctt 360
 cctatacctc ataacatgct ctgtcattgc ctgattagtt cagcac 406

<210> 56301
 <211> 100
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-B8
 <400> 56301

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 aaaaaaaaaa aaaaaaggaa aaaaaatata aaaatataaa 100

<210> 56302
 <211> 143
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-C1
 <400> 56302

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 ggactacact actggggcgg cctgggtctt aacttgagct ttcaccaagc tcccctcgct 120
 tggttctctt tgccctcatt ttt 143

<210> 56303
 <211> 327
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-C10
 <400> 56303

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 cgagtccaag cattcaccgg aggatcccaa atcacactct ccagtaaccg tccgcttctc 120
 cagccgcata tctagccgag tctatctcct cctcctccgc cgccgccgca actatcctaa 180
 tggctcgctt cgccgtgggc gccgccatcg tcgccctcct cgccgtcgtc gcggcgggcg 240

aggccccgac cacagctccc aaggccgcgc ccaggatggc cccgctgccg cctccccctg 300
cgcggtcccc ggccacagcc ccggcgc 327

<210> 56304
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A6

<400> 56304

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ggcacgtcgg cgaacctgct ggtgtacctg acgcaggtgt tccacatgcg gagcgtggac 120
gcggcgacgc tactcaacgg gctcaacggc accaccagcc tcgcccccat catcgggcgc 180
ttcctctccg acgcctacct cggccgctac ctgcgcctcg ccatcgcttc cgtcgctcc 240
ctcatcgtaa gcgcagcgat ccatcttcag tccacccttc tcgctcgtaa cctgcttaat 300
ttgagggaca ccggggtcgg aatcagttcg ggggtagatg gaatggaatt cggcattgct 360
gtgcttgc 368

<210> 56305
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C11

<400> 56305

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aggatcatgct ggcaaggatc aagaggggtg gtgctatcag gcaagagctc gccaaagctga 120
agaaggcgtc cagggtctaa gtcccttttg gtggatggca tgtagtttt tggtttcatg 180
ttgcatcagc attttgtttt gagtgttgtc aaagccagaa ttagtaatat gtttcatgtg 240
tacccttttc aaacttcac cagaatgggt gtgctctgga tattttgtcg ggaatgatat 300
gaaatactta agttagcttg cgac 324

<210> 56306
<211> 304

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C12

<400> 56306

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 gtggtagcga actgtttaga caatgatctc atgcgactat cagcagcaat gaaaacttgg 120
 tacttgggtac ttggtagact atttcattgg atattcggct gtatatgata cgatgtctta 180
 ttttgggggtg tgtgtgtgta tgcccccatc gaggacagtc gatattggct gtgtttatcc 240
 ccgaaacact attcttcctt gagtcattggc attattaatg ggtgcttttt gcaatcattg 300
 agtc 304

<210> 56307
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C2

<400> 56307

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 ggattcaaaa actggagaaa cagataaaga gcaattaaac ggaacagaaa cgtgacatcc 120
 ccccatcatc ttccctgtt tatttacagg ttcatcttcc ttctggctgc ggtcagctag 180
 ccccatggct gtacatttct aggtcaagga ctagtgaata cgcggcattg ttgaactgga 240
 ccgtgaatgc atgtagccgc acatgtacat ccttataaaa ttt 283

<210> 56308
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C3

<400> 56308

cccacgcgta cgaatgggat caaatgtgtt attggaagcg tcgggctaaa cttcccggta 60
 gtatgtgtga ttgagagcag gatggatatc aaagggatta gatgtgagta taggtgggag 120
 tggatcggat gcattgccat acgcaggcgt atacactgaa gcataactg tactcctcac 180

tgcattgctg tctctgccta aggcaaccac tgatgaaccc cgcattgccac acacacccac 240
 actgactcac aactctgcgc acaactacag caccaactcc agtcccccca acaactgtct 300
 caacaactgg gtctgtcatt cagcattgca tgcataacgt cctcgtgaac tacgactggt 360
 actacgactt catgcatacg gtcattgaca 390

<210> 56309
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-C4
 <400> 56309

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 gccacggccc cggacgctgc ggcggctcca gaagccgaag cagctcccgg caccgaggca 180
 gaagcgcttc ctgctgctgc tccggcgggc ccagagatca cccagccaa agctgacgcc 240
 tgatcgtcac gctattattc actcacatgt gatgctgagg ctgcgactcc taaaccttaa 300
 atctagaaat agctggggat tgggtttgca ttgcattgctg ttcttgccgg tctaacaagt 360
 gactataaga ataatggaaa taacgatgaa aa 392

<210> 56310
 <211> 298
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-A1
 <400> 56310

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 gtggggctcc ggcggtgat gcacccgatc gacctggcgg acaagggtgtg ccagcacgac 120
 gaggcgacg ccatcgcgcg cagcattgcc aggtgaggc acctggagat ggggtacatg 180
 ctggtggcga cggaggcggg gctggagatc ctggggcagt gccgcgagct caagttcctg 240
 gacctgcgcg gctgctgggc cgtggacgac cggttcctgc gggagcgcca cccggggc 298

<210> 56311
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A10

<400> 56311

cagaaacttc aaatgtggtt tatgatccaa gtccaaggga tgggcagaac ttagattcat 60
caccgacagc tgtacctttg gctgttataa tgaataaaaa agagcacgtg atatcagtga 120
ataagacaga cattagggtc t 141

<210> 56312
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A11

<400> 56312

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taatagaatg cttccaaatc gatgtgtcgc atcgcatggt ctctttatta ctactagtac 120
gtaccttttt ttctttgttc ggtctagttg agacaagatt tagaattaag acgctgggtt 180
tgggtggacc tcgttaatga tgtaattata tatttggtcc ttcgtctaag gctattttta 240
atggtgggtt catgcaaaaa aaatatacaa cagtatgact gg 282

<210> 56313
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A12

<400> 56313

cgccgtcatc gtccgccagc gcaagccgtg gcgtcgcaag gacgggtgtc acatgtactt 60
cgaagataat gctggagtga ttgtgaatcc caaggggtgag atgaaagggt ctgcaatcac 120
tggacctatc ggcaaggagt gtgctgacct ttggcctagg atcgccagtg cagcaaatgc 180
catcgtttga gagcttggtg gaatgtgttt agacttgagt atgatcatct caattgtgtg 240
ttgcagggtg tgtaagggtg ctattggact tgatggctcc ttttatgttg gtcactcaat 300

tctgtagtga acaaaatttc tgggtgccta agttgctgtc tgagatgcta taatattaat 360
 ttgtct 366

<210> 56314
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-A3
 <400> 56314

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 cggataccac ttatgaccag ggatcctcgt aatggctcgt gatggactac caatggtagt 120
 gcgactatat tgttcacatc catgctggtc gcaaacaatg gagaaccaac caaccaatct 180
 gacgagcttt agattcatca aacaaaatga atccattcac ctttttactc ggaactcagc 240
 agatgtaata ctttccaaga aatgagcctt cattccctgc cactttcata gtttctttcg 300
 ctgatccaca ctgacatcta tgatttttgg agcaaactct gatctgtttt gactagttta 360
 cacgtttgtg tgtggaatct gaagagctgg tctg 394

<210> 56315
 <211> 225
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-A4
 <400> 56315

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 aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaata aaaaaataaa aaaaaataat aaaaaaatat aaaaaaata aaaaacatat 180
 taataaaaaa aactataata ttcattaatc aaatgaatac attct 225

<210> 56316
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-A5

<400> 56316

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cagacagaca gtgctgacaa tgtgtttgtg tttgaatgta aacagaacaa gaacagaaaa 120
atagaagatt gatctgtcaa aaaaaaaga aaaaatcaat acgtagatag cttattaaaa 180
ggaatataag ctgaataagc tactgaaggt tgaatgggat aacctgtctg taaatgcccc 240
catatgctct gggcctaagt cacgctacat taaatcattt gaagattacc tgggcatggt 300
tg 302

<210> 56317

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A2

<400> 56317

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gggtgcactga aagggtgtgat acaatgggga aacctatgctc tgtacaactc agtgcacgac 120
gcagttcttg ccattgtaga ttttatcaag aggggtggggc ccataggctg ggactaccta 180
tggagctaga tacagcactt gttatatcat ttgtaactag attgggctct agctcttgtg 240
tgtcttctcc aattgtgaca tctagcgtga gcattatcat tgggacattt ttcaatagag 300
atatgctatg tgtcttatca cccctgtat cagacatgca tcccgctctt attctagtat 360
ggagtatcac atatggtaaa agccgtagga atcttgatag aaatt 405

<210> 56318

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A7

<400> 56318

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accgcgactt cgtgctcgcc ctcaacagcg cgctcgccgc cgacgaccgc gtcgagatct 120
gccagctccc cgctggcgac ggcgtcacgc tctgccgccg cgtcaagtga aaaa 174

<210> 56319
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-001-Q1-K1-A8

<400> 56319

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ccagacgggt tccaagtcgg ggaagaggac ctctactgg gagggcgaag ccacggcccc 120
ggacgctgcg gcggctccag aagccgaagc agctcccggc accgcggcag aagcgccctgc 180
tgctgctgct ccggcggcgc cagagatcac cccagccaaa gctgacgcct gatcgtcacg 240
ctattattca ctacatgtg atgctgcggc tgcgactcct aaaccttaaa tctagaaata 300
gctggggatt gggtttgcatt tgcacgtgtg tcttgccggc ctagcaagtg actantagaa 360
taatggaata aacgatga 378

<210> 56320
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B9

<400> 56320

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aaaaaaaaa gggggggcct ctataggggc cccattttta tatacgcgtg tatgccacgt 120
tatatctctt atatagtgac ctcaatatac attactgtgg ccggatttat acagcgtcga 180
ctctgaaaac cccgtggtgt tcccaatt 208

<210> 56321
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D2

<400> 56321

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 ttcggttact gggaacagct agggggcaat taagcgaaca gaaacgtgac atccacccat 120
 gcatttcgtt tgtttatttc cagggtccatt ttcgttctgg cggcggtcgg caggccccag 180
 ggttgtagat ttctaggtca gggaagagtg ggaaagcggc agcgttgtag tggacagtga 240
 atgcatgtgg ttgtacatgt aaattctcag aaaagttttg tgagaatgaa aggacatatt 300
 tgagttca 308

<210> 56322
 <211> 330
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-001-Q1-K1-D7

<400> 56322

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 caccgccgaag gacgaggacg agccgcgccc tccggtcttg gcacctcttg aggtgtaagg 120
 tcccaactgt gtccttgaaa tggcagtttg atcgggtcct agatagggtt ctatcttacg 180
 ataaggacaa tgctaaggca gttggttacc ttaatcttta tggacagatg ctatgtgttg 240
 cttctgtggc acttttgttt aagctaagtt ttgcggagac aagatactta tatatgttcc 300
 cgatgaaatt aaaaaaaaaa aaannaaan 330

<210> 56323
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-001-Q1-K1-E2

<400> 56323

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 gtgctggact gccacacctc ccacatcgcc gtcaagtttg ctgagctcat taccaagatc 180
 gacaggcgat ctggcaagga gctcgagaag gagcccaagt tcctgaagaa cggatgatgct 240

ggatatggtga agatgattcc caccaagcct atggtggtgg agacattctc cgcgtatcct 300
 nccctgggggt aggttgccgt ccgcgacatg aggcaaacgg ttgctgttgg agtcatcaag 360
 agtgtggaga agaaggaccc aaccggcgcc aaggtgacca aggcggtcgc tctagaggat 420
 ccaagcttac 430

<210> 56324
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-001-Q1-K1-E4
 <400> 56324

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 tattacttca gcttattctt agagttgtca gatattgcca tgcccttcat aagggttgct 120
 atcagcaaag tgagctctgc ggtgtcctac ttctgggtgt caatgattgg aaggtctctt 180
 gggctgattt tctcagggat tagacaatca ctaggctgga aataagctta tacggtcata 240
 cctgttgagt tttagagtctg acttctgcga ctgaatgaat gtctgttagg ttatgcattg 300
 taaaanaaaa at 312

<210> 56325
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-F3
 <400> 56325

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 tggttatgaa gtggtgtcgc tggtttaaga gtttgctgac tctgtcgaat ggctctgtag 180
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 ggatgtgtac agataaatgc agccatagtt gtgctcctcc atcgcggttt ggccgattgg 300
 aaggttgctt gttgtgctcg tgtgaccatg ttcaactaat acgcatcgct acttgtgcat 360
 taaaaataa ttattatat 379

<210> 56326
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F6

<400> 56326

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 gagcgctcgt ttccggccgtc tttttttcca ctgtaccaat catcctgttg ctaccagtag 180
 tgggtctagcg gagaatgatg cacacttccc cccgctggga acgcggcgat ttttgctgga 240
 acagttgaag gccgagccgg ggcgaatcct tttggcctgg ccgtgcactg cttgctga 298

<210> 56327
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F9

<400> 56327

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 gtgagtatcg cgcgatcaga tgcgagcaag ggtaagaaga gccgtgaagc aggtcaaaca 120
 agccaggata atttacctcc gagtgggtgg gatgatgcaa aagcaacagg atccagtgga 180
 ccagacaatg aagtacccaa gggatgatgca aaaaccatag ggaagaatac cttttttgca 240
 ccacgagctc tggttaaacc tcttgatggg aaaaacaagg gtgagaagaa accagatggt 300
 gcacgggagt tgaaatcaaa tgaggagtgc cgaaatctgt tactaaagaa gtgatatcag 360
 ttggcagggtg tggatcttca tgccccaatc cagagccaag atttgtggtg ctttcatctc 420
 tatgttagaa tgatggacct gtaattgcag ctt 453

<210> 56328
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G3

<400> 56328

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gtacgagtta caactgaata tatgattgat ataccctata tctaggaaga ctgacatcac 180
agatgggaga cataactaaca aatcgaaggg ggcatttaac tgataaggct gacgctgaat 240
caccaaaaact tcgggccttt ccaggggcag taacaacacc cggctagttc atcggctcttt 300
cctcctgcag caaggcattt aaccagtaat aataccggca agcacatcgc tcttccctct 360
cgcaaaaata gtgtagacaa ggcgtatg 388

<210> 56329

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H9

<400> 56329

cggtccggaa ttaccggctc gagcgacgca tgcgtccatg cattgcttac cataagcgaa 60
tgccgatgcg gac 73

<210> 56330

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A11

<400> 56330

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agatgagcta tataactagc tcacgcagct gactgtatga tctgtagttc ccccgttatc 120
tgaattgttc atgtattacg ccatgtactg ctcagcagac ctatgtagct agttgcactt 180
gtatgacttc agcatttctg ttgccagttg tttgtttcgt ctaaaaaaag ctaaaaacca 240
aggaag 246

<210> 56331

<211> 329

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A3

<400> 56331

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 cttgcggaacc tgggtgaccat ccacacccccg aaggacgagg acgagccgcg ccctccggtc 120
 ttggcacctg ctgaggtgta aggtcccaac tgtgtccttg aaatggcagt ttgatcgggt 180
 cctagatagg tttctatctt acgataagga caatgctaag gcagttgggt accttaatct 240
 ttatggacag atgctatgtg ttgcttctgc ggcacttttg tttaagctaa gttttgcgga 300
 gacaagatac ttatatatgt tcccgatga 329

<210> 56332
 <211> 283
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-B8

<400> 56332

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 tagtgtagtt tagttctttg tatcgttaat ctggaagtgg ctccagtatg tcaaaatgct 180
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 agcaatttat gtaaatcttt ttagccttta aaaaaaaaaa can 283

<210> 56333
 <211> 61
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C3

<400> 56333

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 a 61

<210> 56334
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D10

<400> 56334

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ctctgatgct gtatgcaact gaaacgagta aatctatgat cttaaggctg cagtatgttc 180
ttgtgttaaa a 191

<210> 56335
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E2

<400> 56335

aaaaaaaaat aaaaaaaaca aaaaaataaa aaaaaaaaaa aaataaaaaa aaaatgggtg 60
ataattaaaa aaaagaacaa aaaaaaaaaa caaaaaaggg caacctatctt aggggttcca 120
ttcttacgtc cccgtgcttg caacctataa actcttcttt tgtgccccct aaattcaatc 180
cctgtcctta gttttcacca gtttttctgg taaaaccttg ttgataccca ttttaatcgc 240
cttgcataat atcctccttt ca 262

<210> 56336
<211> 87
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E3

<400> 56336

catacatggc agtgcacgca gatatgtgta ttcattcttt ggcgggtgcac tcttcaacct 60
gtgcaacgta gacaaagctt gtatcga 87

<210> 56337

<211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-E4

 <400> 56337

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 gttcggcttg cttgtgtcta tcctttcttg tgattgagtt cgactttcag agtttgcaat 120
 gcgacgaaat tcctcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa a 221

<210> 56338
 <211> 138
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-E8

 <400> 56338

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 caccaacaag agccatacgc atatctagaa gacaaaatgc cgggcggacg atcaaccctg 120
 tgaacggcgc cctggggc 138

<210> 56339
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-F3

 <400> 56339

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 gacatgcccc tcgctcaatt tgctgttgct ttcaatggag catcatgggt ggatcctgat 120
 tctgttgcac tgatggttat gcaaacaatg cttggttcat ggaacaagag tgctggtgga 180
 ggaaagcaca tgggttcaga gcttgtgcag agggcagcaa tcaatgacat cgctgagagt 240
 gtaatgggat tcaatacgaa ttacaaggac actggtcttt ttggtgtcta tgctgttgct 300
 aaggctgatt gcttggatga tttggctttt gcaattatgc atgagatgag caaatt 356

<210> 56340
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F6

<400> 56340

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 cttctctggt ttatgtgggc gcacacggcc ttattttagt tattacacca cagaagctgg 120
 ctgacccaaa aaccgacatt ttggggggcag caacttaacg aaatgtttgc acgagagttt 180
 agagccctat ggaacttggt tggataaata tgtttattac gttgtagtac ttagctagga 240
 acctgcttat gtaagatgat ctttctttta gtaagattaa gaactgtcag cggcctagtt 300
 ctgctgcaaa 310

<210> 56341
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F8

<400> 56341

accggtccag aattcccggg gcgaccacg cgttcgcaca ctctgccat tgcttt 56

<210> 56342
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-G1

<400> 56342

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 gtactcccc cttcatttgg cactgattct gcctgggttg gtgcaaagat gatcagcaac 180
 gtgagtactt tcaactgaggc atggtgtgca aagaagaaac aattccgtca gaagacaggc 240
 cggagtggta cattgtttgc caattcctgg taatgaaaat ctgagacaca agtcacgagc 300

aagaaaactta aagagttccc cgcatcanaa atacggacat aaca 344

<210> 56343
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G11

<400> 56343

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ctcttctctgc taataactttc ctgaagatgt gttactatat atttgtactg ttgcttaaca 120
ttctctatgt ggagaactgc tagctgcttg tgctcgagcag ttttagttta ggaaacacta 180
tgaggctctgg taaacagttg agtttgcatt ttgaataagt agatggccag atatctgcct 240
gggaaaaaaaa atcatacatc tgattgggac tcaacactgt ataacagcat 290

<210> 56344
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-H1

<400> 56344

ttcccgggtc gaccacgcg ttcggaaacg ccgtcgtata ctcgagcgtg caggcctt 58

<210> 56345
<211> 134
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-A10

<400> 56345

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gatttttgtgt tgtactaggg attgcttatg ttattatctg aattggtggg ttcttttcaa 120
aananaaaat nnaa 134

<210> 56346

<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-A11

<400> 56346

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gcttgtagt gtccgttttag gcggtgtagt catgggaacg cgacatcaga tacctggttt 120
cttttgattg tgatgttatt ttgcattatt gcacctgtag gatttgttga agtcatatt 180
ttccagggtt ttggatcttt aaaaaa 205

<210> 56347
<211> 291
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-A3

<400> 56347

ccggtccgga attcccgggt cgacgccacg cgtcacgcgt accggtcacg cctacccgtg 60
cacccaatgt tcagaccacg cgtcgggggt ctgaagcagg tgcagcccga catcggcata 120
tcctccaagg ccatgtccat catgaactcc ttcacaaacg acatctttga gaagctggcc 180
ggcgaggccg ccaagctggc gcggtacaac aagaagccca ccatcacgtn ccgcgagatc 240
cagacctccg tgcgcctagt cctccccgga gagctcgcca agcacgccgt c 291

<210> 56348
<211> 147
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-A4

<400> 56348

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actttttttt ttctancatn ncaanaaaaa aaaaagaaag gactttattt tattactttt 120
cttccccaac aaaaaaaatc ataaaat 147

<210> 56349
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A9

 <400> 56349

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 cagtactatg aaatttctgc caagagcaac tacaactttg agaaaccttt cctgtacctc 120
 gcaaggaagc tggctggtga tccgaacctt cactttgttg aagctgttgc tcttaagcct 180
 ccggaagtta ccatcgacat ggctatgcag cagcagcatg aagctgagct tgctgcagca 240
 gctgcacaac ctcttcctga tgacgatgat gatctgattg agtagaaagg atcatgagtc 300
 ttgaacttga gcaggagtgtg tgccttgctg gttttaagtt gttctagggt gaactcttga 360
 gttctcattg tctggatcat ctttttctcc ttggatgtgt ngcatctttt gagtgtggaa 420
 atggatggta ctctcgcga tgaattt 447

<210> 56350
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-B3

 <400> 56350

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 gcaggagcag cgacacggcg agggctctcg tggcgctcctt cttcaacacg gacgtgagga 120
 ggtccgagag gatgtacggc cccattccag accccagcaa gccccgctg tacaggagcg 180
 tcagggcccg agacttcacg gcaaagttca acaccatagg actcgatggc cgcgcgctcg 240
 accatttcag gctctagctg cctggctggc tacgtttcag attcgctcctt tcatttgctt 300
 tggctctctaa ttaataattc caaataataa gcccgcgga 339

<210> 56351
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B6

<400> 56351

ctcaagatta cacaatgtaa attattggcg gaatgatgta aatgatagtg gcgacaaatc 60
cctttcaact acaaaagtac cgctgcttc ataccaccaa agaatttata aaaggaacct 120
gctgctgaat taatccctct tccctctcaa aaagagctat atctatgggg gggcctaggc 180
tggaccaat catactttct tttcacttca gcagggaagt gaatgcaccc ccagggactc 240
ccatctactt ggccg 255

<210> 56352

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C11

<400> 56352

cccactcgtc cgcccacgcg tccggttaac ttacagcaga atcaccatgg agaggaggcg 60
cgtggaattt ataatgcttt gtagtgtctt gttgactact ttctaagaaa ctgggccgca 120
cgactcgcat aagactttca atgggaatga ggaatgatgt cgtgtgctca ctgctgaaag 180
ttaaccggac gcgttgccgg acgcgtggtc gggcgcgctc ctctagacga tccaagctga 240
cctgcgcgtg catgcgacgc cagagctctc ttataggagc acctaaattc aatt 294

<210> 56353

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C12

<400> 56353

cggtccggaa ttcccgggtc gaccgcacgc gtgcgtccac gcgtccctac cataat 56

<210> 56354

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C5

<400> 56354

ccggaattcc cgggtcgacg gacgcgtccg ggggaagatg agtcgcttta ttcaatggtc 60
gttcgttgcc ggttactctg aaactaataa ggcggaggat ttggtcatta cctaacggat 120
gtccttccga ccttaaattt tattggtaca ggtaccccc ctt 163

<210> 56355

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-D4

<400> 56355

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ctctactcgg ctccccctaa ntcctcaatt ggtaggctag cgttaccttc cccccgaaa 120
acgtaattgg cggtttcgaa ggcggcagcg gcggcggcaa caccggtgac gccgacagag 180
gggacggtga tcgcatcca cagcctggag gaggggagca tccagatcga ggaggccaac 240
agcgccaaga agctggtggt gattgacttc actgcaacat ggtgtcctcc gtgccgcgcc 300
atgggtccaa tttttgctga tatggccaag aagtccccaa atgttgtctt ctgaaagtga 360
tgtcgatgaa a 371

<210> 56356

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D5

<400> 56356

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acaaaatggc cccaattag aagggttttt ttttatttcc cctcccacc ca 112

<210> 56357

<211> 229

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-D6

<400> 56357

ttcccagggtc gaccactcg tctcccacc ccttccattt attaaaaaa aaaatttatt 60
taaaaaaaaa aaaaaaann annaaagaaa gattttttta attaaaaaac cnnccccccc 120
ccctaaaaaa ctccgnttta cctatcaaaa aatcccacct cctttcccc caaaaaaa 180
accgggggtcc cttttaaaaa aaccaaattt ccaaccctt cccccaaa 229

<210> 56358
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D8

<400> 56358

cccactcgtc cgccacgcg tccggtaaat ggccgtgggc gacgatggaa tgtgaggggg 60
ggaacacgag atcctggtgt cctcttgctc gtccagatct tcaaccacca gctaaccatc 120
ctttttttta gtgtagccag taattgttat tccgacacgt tctttgtttt gtaatacgac 180
taatctctgt tgtgataaaa 200

<210> 56359
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-E8

<400> 56359

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tccgttgttt ccgcgcctgt tgggtccgctg gggacgccg atttttgcac cgagcacgga 120
aatctacaac aaaaacatgg agctacgacg cgactcccaa ggtacaatcg gtaattatgt 180
tcaaacaatt tttaagtcgt tctgcgctcc ttctattacg agcaacgttt tatattctgt 240
gcttgcataa tgaatcgaag aaatcctgac accaatcgaa ctgaagatcc tgaaacgcac 300
gttaataccg ttgacgtccg cttcaccag ctcgattntc agtcttgtaa tactaatcgc 360

tccatgagtc tgaagtgtgc aaaaatttat gtcgcagcta cacaaattta catgctgggt 420
ctgttcaacc 430

<210> 56360
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-F5

<400> 56360

tcccgggtcg acccacgcgt gcggcaattt gcccaaaagg gtattaaatt ttttttggtt 60
ttggaaaa 68

<210> 56361
<211> 144
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-G11

<400> 56361

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actcttattc tccagcacia cctacatcgg aagctcttac tttttatcat catctaccct 120
cactaccaac aatccacatc aaat 144

<210> 56362
<211> 69
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-G12

<400> 56362

cgggtccggaa ttccgggagc gncgaccac tccccacac ctttctaaaa aaaaaaattt 60
taattttttt 69

<210> 56363
<211> 158
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-G5

<400> 56363

gggtcgaccc acgcgtgcgg gcctggggct ttgttttgtg ggaattattg accaataaaa 60
tgccatttga aggcattgtg ggtggggagc cggatttgcc tgttgttttc aacaaaaggc 120
gccaactttt ccttgagaga accccaaga acctgggg 158

<210> 56364

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-G8

<400> 56364

tccggaattc ccgggtcgac ccaagccttc cggcaagtct tgatacaacc atgcatccaa 60
ccgttcatgt ttgctatgga aaac 84

<210> 56365

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-H10

<400> 56365

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ggacatcacg gcagagcggc caccgcagcg gcttgagagc gtcaccgttc gtgctggcgt 120
tgccgtcgac tccatcgagt tcacctatac tgacagcgct gggcagagggc gcgccgctgg 180
gcgttgggggt ggacttggcg gcaatgttcg aacgatcgac cttggcaacg ccgaggatgt 240
caggggaagtc tcgggaacat acggcgcat tgaagggtgcc actacgctga cctcgctcag 300
gctcgtcacc agcagcagaa cctggggccc ctgggggggtc gagaacggga cgcgtttctt 360
cgtcacggcg cccatcggca gcagcatcgt gggattctat gcgcgggcgg gaac 414

<210> 56366

<211> 120

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-H3
 <400> 56366

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 accaagtcct tcaccttcat tggccccaag gagggggagg aggccaccac ctctttccat 120

<210> 56367
 <211> 208
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-H8

<400> 56367
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 aacaagccct aactgagatt aatgtgtcct tgctgtaatg tttagccagt cctgccccga 120
 tccggggaac tgagagattg tctttatcgc aacattaacg gctagcgggtt agtatcatct 180
 tccagtcacc ttgaatgtta ctagtaca 208

<210> 56368
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-A1

<400> 56368
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 ccgatgcggc tacctgacca tctgctgatt cttccactag caatgtaaat gctgatgaca 120
 catatattcc agatggacgt gccatataca agctccaagc ttacgtcagc catatgcgaa 180
 cctataccca ctgcatacac taccctaact atagtctact agacggcatg tacacaatct 240
 ttactgacaa aaccgtgcag t 261

<210> 56369
 <211> 531
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-A10

<400> 56369

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tcctcctcct cccagcgcgc agcgtgggtcg tcggctggcg gcggtgcctg gcagacggcg 120
ctggtgctgc tggctggcgg tggctcggga cgggcgtctg cgagcgggtga gactgctgct 180
gaggtgacgt ccgtcgggtgt gcgccgtgca ctccgggtacg ccgatgggct agcgcggcgt 240
cgccactccg cggcagtgtc gcagcggggg tgcgctcgct caacagaccg cgccgtcgctc 300
ggcgtgcgga ctccggcatgg ccaactctgca agctgcctca agagcantgt acgggcccgg 360
ctcggcgggc ggcgtcagtc atggccaacg ccgacaacat tcccggcaag tgcggcgtct 420
ccgtcggcgt gccatcagc cccaccgtcg actgcaccaa gatcaactga tcgatggaac 480
catagtggag gtagctcgct cgttggatgc agcgtacgtg gccatcagca g 531

<210> 56370

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-A12

<400> 56370

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cggctctctt agcctcgag cacaccgtcg gcatccggag tgaccgctgc agcctanggt 120
ttccggcggc gatggcgggt aaggaggagg agggctctgt ggccggccaag acgacggcgg 180
ccaagagcac cgacaaggac aaggacagga agaaggcccc cgtgtcgcgc tcctcccgcg 240
ccggccttca gttcccgtg ggtcgcatcc accgtcagct caagtcgctg gccttcgcgc 300
acggtcgcgt cggcgccacc gtcgtcgtct attccgccgt catcctcgag tacctcaccg 360
gcgaggtcct cgagctggcc ggcaacgcca gcaaggacct tcaggtcaag cgca 414

<210> 56371

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-A7

<400> 56371

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tccctgtgcc caagcacggc ttgccttgcg gattatggag acaaaacaag tgcttcgtcg 120
acagaaaggg gcgtgagacc gacgacgatg atgtggagga tatttttagtt tgactcttga 180
gttaggcatg aatttaaccc tcaagctagc tagagaagtt ttttttcctt ttgaaatatt 240
tctttgctcg tctttcttct ggatcaaatt actttggtgg acaagaaa 288

<210> 56372

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B11

<400> 56372

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tgtagtctac tagcctggtc ttttctttga gttgtgatgc aagtactctt tgaatccatg 180
ttatcaggag catgtcttat gattagctag aggattctct tcggcgacga tgaatatatt 240
tagctagtca ttttaatat gggatgtgtg atactgatgg taatgcccgt agttatcggt 300
cactcagctt atatgttgtg aaatccaatg atctcggcga gatgatcata tgatat 356

<210> 56373

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B12

<400> 56373

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ggcctaccct tctggtacag tatgcaggcc atgggaacct tagcggctctg aatagtcatg 120
attagctcac tgactcaaca agtgatggtg gtgtaaaatg agattcttgc ctgacggcag 180

ttatcacatt ttgaagacta acaaatatcg ccatctctgg atgtggtatt ctacagggta 240
 ggggttccaa gtttgactca ccaattaaaa catgcatgtc tggttgtata acaagcaatg 300
 aactccgtat atatac 316

<210> 56374

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B3

<400> 56374

attcccgggt cgaccacgc gtgcgcaagg agctcgacgg ccgtaacatc accgttaacc 60
 agggccagtc ccgtggcggg ggcgggtggct gcgggtggcta cggcgggcggg cgcgggcggct 120
 gcggctatgg tggcgggcgc cgtgacggcg gttatggcgg cgggtggcggc tacggcggtc 180
 ggcgcgaggg tgggtggcgg gcctacggag gcgggtggctg ctacggcggg cggcgcgagg 240
 gtggtggtgg cggtacggc ggctgcggcg gctgctggaa ggactgatgt gtgggcccac 300
 cctggcttcg gtcgagttat cttatctatc tatag 335

<210> 56375

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B6

<400> 56375

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 acacgttgac agacacatac ttacactcat catggagcac tacatgtcgg aggacctaac 120
 atcattcata tcacatgatc tgagataatt taatcagaca atcaagtctt ctatgttcat 180
 aattgcctc ataaaacatg agctactcta ctagtacttg atgcaaatcc actcaaaata 240
 gatgcatatt ccatcagatc agcatgggta cctgttcctg atcaactcgg atgcttctat 300
 tgctaacgag cattaccaca atgttcacta tattattgta a 341

<210> 56376

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C10

<400> 56376

gaattcccg gtcgaccgca cgcgtccgcc cacgcgtacg aaatcggcgc atgtgatctc 60

ctctgagaaa gctgcagcgg tgccacgtgt gtccggctaa gagttaagat gcctttcgaa 120

tgtgaaccca ataataatgc ggtgcgggtg cggccgggaa atcacaggcc gaaccgaact 180

gctgaatgaa agagaccact cacgctgctg ctgtgtcagg tcagcgacga gacttttgct 240

ccagctgccg gggaccatcc aaaaccagcc attatagatc aaatcaagta gagtttaagt 300

gctaggaaat aattcaatgc atggtgtatc tttggtaacg tgacatgaca acaatgcaat 360

gcaacgcggc gggtttc 377

<210> 56377

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C11

<400> 56377

ccggaattcc cgggtcgacc cacgcgtgcg cccacgcgtc cggcaagcac ggtgctcaaa 60

ctcacaaaa cattgagaaa cgccttttga gttgcaggta gatgctctat ttataccggt 120

gacaatcgcc tcttctggct tttagcagtt tgatggctat ctttacttag ctatataatg 180

tatctgagac tgcaaaacttt gtgtcactga aactgctcga gggtatatgc taaaaaaaag 240

ctccaactgt caaggaccat acaaaaccag ccattataga tcaaataaag taaaagataa 300

agtgctaaga aataattcaa tgcataaaaa aaaagggggt cccttttcaa gggtccaatg 360

ttacgtaccc gtgcatgcaa cgaaaaaatt tttcattagg gtcacctaa 409

<210> 56378

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C2

<400> 56378

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ccccgcgctc cgtggaaaac cctcgttttc attgataatg gcaagatagg gcttgccgct 60
ctggaggatg gaaacttaca tacgcgtgca tgccactcta tagctcttct ataatgtcac 120
ctaactacaa tt 132

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<210>      56379
<211>      355
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3088-004-Q1-K1-C6

<400>      56379

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gaactgcact gtctatgttt tgtgtatta tggttgttta atggcccaat cattgcatat 60
agattctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggtag 180
accttattaa aggatccaag ttaacttact cgacaatgca acgtcatacc ttttcaaaag 240
tgtcacctaa atcaaattaa ctggccatct tttaaaaacg atttaactgg aaaaaccttg 300
tcgttaccaa attaaatggc cttgaaacac atcccctttt ctcaaactgc gttaa 355

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<210>      56380
<211>      241
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3088-004-Q1-K1-C7

<400>      56380

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taaatgcaca tacatatcta ctgatcacac tttcttcgca aacgccccac tcattgcata 60
tggtctatac caagtagcca cacagctaca aaactattaa ttaactcata ctactgctat 120
aaatactatt gaataacgaa gaataaacct acctatacgt aatatcacia tactctacac 180
ttaccttaaa ttgtaccaat ctctgtaaat cattactatc aactgaagca ctttaataac 240
t 241

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<210>      56381
<211>      402
<212>      DNA
<213>      Zea mays

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<223> Clone ID: LIB3088-004-Q1-K1-C9

<400> 56381

aattccccggg tcgaccgcac gcgtgcggat tcaaagacta caaaattcta cccgtcaatc 60
gggacctatc aatcattcaa tcaagtctgt ccctgggatc tttttgaacc aaaaacgtcc 120
ttataaaact ggaaaccctg aaagggttta atagtatatt aatgattttt taattggaat 180
ggtccactga attctttaat aatttgtaat gccaacctaa ttaattgggt tttttggtta 240
atggggccta atatggccca ttccccataa tgaataaaat gtaacttgcc ctaattttgg 300
ggtaaagtgt tgttggtaaa ttagtcatta ggcaactttt taatgctggg attcattaga 360
acaccatgga accttataat tggttgggta atggcaccaa gg 402

<210> 56382

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-D10

<400> 56382

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acagttcctc aacgagtgac ttgcaactgt gttgaagcac aaccaaatac aaaagggtta 120
actgctcaac cacagtataa aagggtcttg ctggataatg gtottacagt gcttgcacca 180
ccttttattg aagcgggtga gaatattgta atcagtacag ccgatgattc ttatatgacg 240
agagcgtaag gggatatctg gatgacgttt tgttctacca aatgggggatc gattacaatg 300
tggctaccag aataatttta tttaactca gttgtggagt tgccgtaaac agtgaacctt 360
ggcggacacc aacaaaaaac ttttagttct tagctaataa cccacacatt ttgtactcac 420
atgtctnttc ggtttgttcc tcgcttcaaa tattta 456

<210> 56383

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D2

<400> 56383

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 tgatccattg caaacgtaat gcagcattac aagatcacia cagatggcct atgttcattt 120
 accccgagtt cegtcaagga caatgaaaag cgcacctttt taaccaaaaa acttagaata 180
 tcgacggaga tttttctaca caacagcact ggcaatacat aaaccagac 229

<210> 56384
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D7

<400> 56384

cggacgcgtg ggcggacgcg tgggcagcta gttgcttcgt cgttgtaact tgggtgtcta 60
 cgtatatatt atatgtacca gcggttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaat aaaaaaaaaa aaaaaagggg 180
 aggccggtttt aaaggatcca agcttactta cgattacatg caacgaaata actcttctat 240
 aggggtcaact aaattaaatt caatgacctt ggttttaaaa cgtgaggact ggaaaaaccc 300
 tgggatatcc aaatttaata cctttt 325

<210> 56385
 <211> 471
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-E10

<400> 56385

cggaattccc gggtcgaccc acgcgtgcgc gcaacttcac agcgtatcat cgttttccat 60
 cgctcctact cctatcatcc agaaaatctg agcggatttg atggcgccca aggcggagaa 120
 gaagccggcg gcgaagaagg tggcggagga ggagccctcg gagaaggcgg ctccggcgga 180
 gaaggccccc gcggggaaga agcccaaggc ggagaagcgg ctacctgcgg gcaagtccgc 240
 cggcaaggag ggcggcgaca agaaggtag gaagaaggcg aagaagagcg tggagaccta 300
 caagatctac atcttcaagg tcctgaagca ggtgcacccc gacatcgga tctnctccaa 360

ggccatgtcc atcatgaact cttcatcaa cgacatcttt cagaagctcg ccgcggaggc 420
cgtcaagctt cgcccgtaga acatgaagcc caccatcacc ttccgcgaga t 471

<210> 56386
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-004-Q1-K1-E11

<400> 56386

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agcacggatc acgagcactg aaattctgtc tcagcctggt ctgccgactg ggtagcttga 120
attctaaagg ttgatccaag cangaggtga atgtgtgatc gatggttatt ttgcatttct 180
tctatgttga tgcattgaccg ttcatggaga acgctggtag ttgtgatagc tatcacacac 240
tcttttggtt aataattaga tactcttttt gttgatcaat gtgaaccttt aatggtgttt 300
ataggtcttg tcgagttttt aatgcgctat tatgaaaatg ctatgtgctg ctattgatga 360
ttggacatgt taatggctct atat 384

<210> 56387
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E5

<400> 56387

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acggcattgc tagactgtgc cgtggattca acatatcttg tggttgaatt attgtacatc 120
gtggcctgta tttcggactt tacgattcta tcaagccagt tctcctcact ggcagcctcc 180
atgacaactt ctttgccagt tttgctctgg gctggctgat caccaacggg gctgggtcttg 240
catcttacct cattgatact gtccgcagaa ggatgatgat gacttctggg gaggctgtca 300
agtacaagag ctccttggac gcattccagc agatcct 337

<210> 56388
<211> 365

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E8

<400> 56388

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ccggtcctga attccccggg cgaccgacgc gtccgcccac gcgtccgctg acacgtgggt   60
cgacgttgat gatcctgcaa tgttgtaggt gattggggca tttgttggcc ctgctgctga   120
ccacctatgt ggctgctata cactgtacct gtctatgcat atatgagact ggaacatttg   180
gcgcataaaa aaaaagtata cataataatg gcaaggcaca ttatacatat ataataataa   240
gggctgccgt tctaattgat ccaagtttac ataccatcc atgcatactt cttagctatc   300
atatagtgac ccctaacttc agttcactgg ccatgatttt atagcgtcta gacttgaaaa   360
accct                                             365
  
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<210> 56389
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E9

<400> 56389

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gaattccccg gtcgaccgca cgcgtgcgcc cacgcgtccg gggcaaagga tttgatcgtg   60
cccgggtgtga tgccatcagg gtgctttgcg gtctgcctga ccatgtacgc tgaccgcaag   120
gaagggcatg gctcgcgcac cggctgcctc aagcgggttca acactttctc ttgggtgcac   180
aatgcgatgc tgaagcgcgc gctcgtgaag ctccgagcga agcaccctgg cgcgaggatc   240
atctatggcg attacttcac gccaatcatc cagttcatac tccagcccaa gaaattcggg   300
ttttacaaac aaccaccaag ggcatgttgt ggcgcgcctg ggaggggtcc ttacaatttc   360
aacctgacag cgaagtgcgg tgagcctggt gcctcggctt gcgctgatcc taagacgcac   420
tggagctggg atggtattca cttgacagaa gccgcgtatc tgcaca                     466
  
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<210> 56390
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F10

<400> 56390

ggaattcccg ggtcgacca cgcgtgcgca agtgtgttca aattgcacga ctctatttat 60
aggatgatga tgcagtgaat gctgacgggtg ttatgaacaa tgcttcattt ttggtcacca 120
acagtcatca tgaggttcta aacttacagt acaaggctctg ttatgcaagg attttggatc 180
tgaaaagaag atttctggaa gctgcacttc gatattatga catttctcaa attgaacaac 240
gcaagattgg agactaagag attgatgaaa atgcacttga gcaagctctt agtgctgctg 300
tgacatgcac aatattggct ggtgctggtc cacaacgctt ccgtgttctt gctactctgt 360
acaaagatga aaaatgctcg aaagtgaaaa tattcccaat actgcaaaaa gtttac 416

<210> 56391

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F11

<400> 56391

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cctagctacg gatctggatg gcgtaccgtg gcctcgtctt ctacatgacc gtccggggcg 120
ccccggcggg ccggatcgcg atggagctgt acgccaacga ggtgcccaag accgcggaga 180
acttacgggc gctgtgcacg ggctagaagg gcgtgtgcaa atacgggaag ccgctccact 240
acaaggactg cacattacac cgtgtcatcc cctagttcat gtgc 284

<210> 56392

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F12

<400> 56392

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gcaaaaacat actagtgtat gagttcatgc ataatgggac actaaaagag caccttgggtg 120
gagctgataa tgaaaagata actagctggc tgaagcgtct cgagattgca gaagattctg 180
cgaaaggat agagtatctc cacacgggat gctccccaac aatcatccat agagacctga 240

agagcagtaa cattctccta gacaagaaca tgagagcaaa agtggcagac tttgggcttt 300
 cgaaacctgc agtggatggg tctcatgtgt caagtatagt tcgagggaca gttggatacc 360
 tggacccaga gtactacatc tcgcagcagc tgacggagaa gagcgacatc tacagcttcg 420
 gcgtgatttt gctggagctc atctctgggc atgaacccat ctogaatgac aactttgggc 480
 t 481

<210> 56393
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-F2
 <400> 56393

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 agccaactac cttctggatc atggccatga gtttgacgag cagcagcaat agacgtgggg 120
 tggatggagg aaaccgaggc agttgcagaa cagcgagtgt cgttcttatg ctatgctgct 180
 gactatcttt tatttccata tatatttggt cggaatgctt tctaagtaca tattaattca 240
 atatcaagcg ttacaccgtg tatgaaagcc tgtcaaactg tggccttttg tttggagggg 300
 aggattcgat tgctca 316

<210> 56394
 <211> 498
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-G10
 <400> 56394

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 acagatgaga taaaagcact aaggacgagg tttcaggtgt caaaaagagt ccaaaatgag 120
 gaagttccca tggcagagga agctctggcg atgatatac aatcatttag gcaggtcgtt 180
 cttgatgtga aagttggacc cccttcattt gagaaagggt tagctgagga tattttgtct 240
 cttctcagga gaacaaattg caagaattgt cttgtctggg caaaaagtga tgatatagga 300
 agagagataa ttaaattgtc taaagatgtt attgttggt atgttgcat ggtggataaa 360

tttaccaata gaagaacgga gttagtgagg attgaaaggg ctaaagttgc tggcatatat 420
catcctttga tccatgagaa agttatgaag gtcatgcgca tgcatgacaa gagagttttt 480
gcatggactt gtgatgat 498

<210> 56395
<211> 74
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-004-Q1-K1-G11
<400> 56395

ctctccggaa ttcccgggtc gaccacgcg tgcgcactaa caccagctaa cacctctttc 60
tctcctgcaa taat 74

<210> 56396
<211> 231
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-004-Q1-K1-G12
<400> 56396

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ataaaataaa atcactaaaa aaaaggataa aaggaaaatt taaaaataaa aaaaaaatca 120
aacactctat actatccaag cttacacact cttccatcca acgtcttacc ttttctatat 180
tgccacaaaa tttcaattca cttccctcct ttccacaact ttctcactgt t 231

<210> 56397
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-004-Q1-K1-G4
<400> 56397

ggaattcccg ggtcgacca cgcgtgcggc aaaccctagc cgacatatct cacgatccac 60
tcgagcacca agccgagga aggtgaagag cgatggggcg cggcgtggtg tcggcgaatg 120
gcggcacgcg tcgcgggcaa gaagaagggg tcggattcct tgacgatcga ctgcacctag 180

ccagtggagg acatgatcat ggaggtcgcc tagctcgaga agtgcctgca agagcgcac 240
 actgtcgccct gcggctaagc tggctacctc ggtgactccg tcaccatctc tcgcgagaag 300
 accaatgtca ccgtcacctc tgaccgacct ttatcctaga ggtacctgac gtactcgacc 360
 cttaggtact tgtgtacaca caacgtgcgg gattggcttc tc 402

<210> 56398
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-G5
 <400> 56398

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 accacaccat aacatgggac atttgcgaaa ctacgggtac aggtatcaaa atgcaacgag 120
 ttcaatacta aaatataagc gtagtgcaat ctaatcttct cagcaaattcc ccaattcctc 180
 cgagttcgag cgacctgtc ggggcgtggc aaggcgagg aggtctctggg caaaggcggc 240
 gccaaagcgtc accgcaaggt tctccgggac aacatccagg gcatcacga 289

<210> 56399
 <211> 240
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-H10
 <400> 56399

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 atcaacgttc ctcatgccct tcaagctcta gtttccacat aggacgcttc acatgaatag 180
 caaaccttac attgattgct gctactctta caaccatctc gactatatca actaactaat 240

<210> 56400
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-H11

<400> 56400

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tgcggagatt tataataaac acgcaogaag tctctcgtgg ggtaagcatt gtactgaatg 120

ttctcactta acgcaccttt gaatgtatat ctgcacatct ttcatagtgt gcacactata 180

atcaagcaag acatcattat cttctgaggt ttacattta atttcagaat tacttgaaca 240

atactcacac catatcacat atcatag 267

<210> 56401

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-H5

<400> 56401

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ggaagagctc cgcagaaagg agcgacactt gggagaaatg aacaggcaac tcaaacacaa 120

gcttgaagct gaaggttgta gcaactacag aaccctgcag catgcagcct ggccagctcc 180

cggcagcacc atggtggagc atgacggcgc cacctatcat gtgcatcaa ctgctcaatc 240

ggttgcaatg gactgtgaac ccaactctgca aatcgggtac cctcctcatc accagtttct 300

gccttccgag gcaagcaata atatcccaag gagccccct ggaggcgaga acaacttcat 360

gctgggatgg gttctttgag tttctctngt aatcatccat ccatcagaat gatgtccaaa 420

caataaaggc actcaatgct accatatgca tatncattgc taaat 465

<210> 56402

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H9

<400> 56402

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atgcttgga gacgttgtgc acgggatcgc cgctgttggg ccgcacttcc gagaagcatc 120

gaggttcctc atgcccttca ggctcaagtg tccagagagg aggctgcaga tgaagaggaa 180
 accctacaag gatggctgct actcgggcga ccgtcgcgac aagatcaacg aactaatcga 240
 gaagctgaac tagaagcgca aaccttgctt actacagctg tcgctttgcg ttggagcgat 300
 agatctgtta ttaccttgct gggtttgtaa tagcatcagc tgggtgtacc ttcagctttg 360
 aaaccttaca tgcgcttgct cgatcaagtc atgaaatagc aggcgcttat ttggtcatac 420
 ccttgcgctt tgcttcacat gcctcttagg gaggtgcgac aatatatcag ctggagtatg 480
 aatgatgtaa 490

<210> 56403

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A11

<400> 56403

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 attaaaaaaaa aaaaaaaaaat aaccatggaa ctgaccatat aactcaggtc aaactatcgc 120
 acgcatacct ccgaatccca ttctcctata tcttgcaacc taacttcaat caacttgcca 180
 tgctaacca atatcaacta ctcataaacc cctcacaatt cccaacttaa tcgaatctcg 240
 ctgaataccc catttaccaa ttttccctt 269

<210> 56404

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A12

<400> 56404

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 aagctgaggg ttggcttcgc agagtcgtgc tagggatatg gtttggcagc aaccctgcca 120
 gaggcaaacg cgtaatttgc gtgtttatgc gaccggcgat gtgtgtatat atgctactac 180
 atgttttagtg atgctttccg agacctgaga caacgcccgct ctgttttaac gtggcgcaag 240
 aataattctg gttctggatg taaaaaaaaa attaacaaat aagataccaa agtaaattac 300

at

302

<210> 56405

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A4

<400> 56405

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gagtctcttg tacaacgaat gtcactatcg taaggggata tcaggttgag ataagagcaa 120

ctttcctagt tcgtcgtcgt cttgactgct gacccatatg agcttctcta ccacctaggt 180

catgccc 187

<210> 56406

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B11

<400> 56406

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agtgcctgca aaggttggtc tgcgagctta caggcgcttt cagggaaggt gggctgtgca 120

accgaaatgg aaccttctca tacaaggatc atttgcgaga gtgtcagact cctgtccttg 180

cattggctgg agataaagac ctaatctgcc ctccagatgc tgtttatgaa actgtgaaac 240

tcattccgaa tcacaagggt gactatagag tgtttgga ggcacaaggc ccgcattatg 300

cacattatga cttgggttga agccgactgg cgatcaatga ggtgtatcca tgtatcatag 360

agttcctctc tcgtcatgat gggtattgat ttgattatat gatgctaata cagagtaact 420

tacaacacca tgttcatctt aaagggtttt t 451

<210> 56407

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-005-Q1-K1-B12

<400> 56407

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tgaatattac agtcgtgaaa ggtactaagt ttncggttag agacatgctg gcaagtgatc 120
catatgttgt tttaacactc ggagggcaga aagctcaatc gacagttaaa aaaagtgatc 180
ttaatccggc atggaatgaa gtgcttaaga tttctgntcc tcgaaattac ggacctctaa 240
aacngaagtg tatgaccatg atacgttctc agccgatgat atcatgggtg aagcagagat 300
agatctccaa ccaatgatca cagccgccat ggcctt 336

<210> 56408

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B4

<400> 56408

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ggagagcttc gtgaagaatc tggaaatgga gggcagatat ctgagggatg tgtggtaaag 120
agcgattgga tgaacattcg ttcgtattac acacgtgtac aactactacc ggaagagcac 180
tgacaatgga ctagatctga tattttttatt gcttctatat ttatttttat tttcttttgc 240
ttcgtttctc tcaagagctc tttgctttct ttgcggttct cccaagagtt ctttgtacct 300
atgtattaca aattctttat atgtataaga tgaggacaat tttggcaaataaaaataaaaa 360
tttatatatt caattaattt ttaaattttt t 391

<210> 56409

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B6

<400> 56409

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catttatagg atgttccatg accttcttgt acccgagaat cgctcgtgtg gccatagaca 120
tctccatcac ttattctgta tggaaggcta agaattggaac tgacgcatgc aaagcctgta 180

cttctaccaa caaacctggt acta

204

<210> 56410

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B9

<400> 56410

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atattcatca tcttacaagg ctaacggggc ttttgaacag ggccactaaa accagacaac 120

atcaccataa actaaaaaaaa ttcatatgtc caaacagatc atacatattc cttttaactc 180

ttctaaaaaa aatctctaatt cttctaaaac aaccccatat acaaaaacat acttttaacc 240

ccaagtccaa attaagactt ttacttaaac atgtaacaca actagtgcta cttaacatac 300

tccatcacta tattcttcta catataacta agacacttta aatgatccaa atttacttac 360

tcatgcatac caaaatataa ctcttatata ttatataccta aaatcaattc actttc 416

<210> 56411

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C10

<400> 56411

gaattcccggt gtcgaccgac gcgtccgagc tcctggtcta aaagccacaa aaattgaaaa 60

taaaattgga ctcagaatgg ttcaaaatgg agacataatt ctaaataaag tatttgtccc 120

tgaggaagac agattaacag gcatacaattc atttcaggat ataaacaagg tcctcgctat 180

gtctcgaatt atggtggcat ggcaaccaat aggcataatca atgggagttt atgacatctg 240

ccatcggtat ttgaaagaaa gaaagcaatt tggagctcca ctggcagctt ttcagctcaa 300

tcaagaaaag cttgtccgca tgcttggcaa cattcaggct atgcttctcg ttggatggcg 360

actgtgcaag ctgtatgagt caggcaaaat gacaccaggc cggctctagtt taggcaaggc 420

atggacgttc aagaaggcca aggaagtggg ttctcttggg cgagagctac 470

<210> 56412
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-C12

 <400> 56412

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 cagctctttg acctcaaaag caaggaacaa gaatggctgg atctcaataa agacctagg 120
 aagcagctgc aagaaacaag gccagagaac gcgctccgtg tctcctggga ggaaggtggg 180
 cacagtggcg caagtgggaa tggtcttgat ccttatcagg ggctccttca gcacctggac 240
 aacgatcctt ccctgcagtt cgggtaccat catcaagcct acatggatca gctgaacaac 300
 gaggacctgg tggacccgaa tgagcatggg cgatctggat ggatatgaaa tgctctgatg 360
 acccaaaata aagttgatgc acagcagga ttcaccctgc aggacgcgag actatgtatt 420
 gaagctaaga cctcgtgtgt gttgtgtgt gtgcgaagct tggaacttta taaatcg 477

<210> 56413
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-C4

 <400> 56413

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 gcttctcgac tccgaacact catatcgaca ccgatctctt atctcagggc tcaagagaga 120
 gcatgcacac ttcctacatc ataacgttca acaagatcta cacatgacta tcgatcacct 180
 catgctctcc gacgctaaca aatgatctgg ctgggacacg aaccatacta attatatcat 240
 atctatatac ct 252

<210> 56414
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-C5

 <400> 56414

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aagcctgcat agaatgcggc atcaggagat gccattgttc tgaatactaa ggctattcag 120
gatgaaggct gttgagaaga gcaagggaga aagaaagggc atcttctaca agttgtctgt 180
attagacgca gtattactac gtagtgcat ggcacattga ctgtatctgt tacctatggt 240
atcgcggtac atgtatgtag aagg 264

<210> 56415
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C9

<400> 56415

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ggaacggctc gaatgagtag aattctctga ggggttcata acttgcggca gatcgtattg 120
atggacatat gaaaccagca ggaccctatt tgcacagctg gtatcgtttt aaaagatgaa 180
gtactaagaa gctttattta cctgaggcaa cttgagctta ctccgaccct ttggtgtgga 240
gtgcatgtca gaaacaggat tatgaatgct gtgttcagtg cttttcacia attggtgtat 300
tttcaccaga acaatttccc tcaattggaa gtgaagaaat ccataacgat ctataagtta 360
tttgatctta aa 372

<210> 56416
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-D1

<400> 56416

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aagcaagcgt cgcacccgcc ccgatttggga ttccgaggac gaatacaaca ttcccgcgg 120
actagcgatc accgtacctn ctgtgcctcg aggtggagcc cgccgtctgc gactcgcgca 180
gaccacatct aacgcgtgtg gcgctcgtcc ggctcacggg caaacacccc tttaacttag 240

aaccttcggg gtcgtggctg atggcgacg acttcatcac cccggcaccg caccactacc 300
 actactggaa aaatatcggc tagaaaccga agttcttact ctaatagatc aacgtttctta 360
 tgtaaagctt gtttcgatag gtcttatcta atacctgtaa tgtacaatgg gcagtttgat 420
 gttcataatg 430

<210> 56417
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-005-Q1-K1-D11
 <400> 56417

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 aagaggaaaa ctggaattcc ctacaaatgc atgctgttct ttgatgacga gaacaggaat 120
 attgaagcag tatcaaaaat gggagtgcg agtgtttttag tagagaacgg tgtgaacctt 180
 gacatgttta agctgggtct cagtaacttt gcaactaact gtgctgccta cagcagaaag 240
 gatgatgaat aacctcgagg agaagtgata catataagat aataccttca aaacactgta 300
 ctgaattca ttgtcatc 318

<210> 56418
 <211> 465
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-005-Q1-K1-D12
 <400> 56418

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 agctgggtat aatcggttcg aatagtcggt gtcctcgggt catggagact caactcactg 120
 accactcatc gtagtttata agtgaaataa gaatttgggg aaaagaaagc tagaccagga 180
 ctagtgaatg ctttagatca agcaaactta gattcaggaa aagtacttaa cttgtgaagt 240
 aaaattttgg cataaggatt cactactagt aagctcttcc gcaaaatgag tctttgaaat 300
 ttgataagcc ttaccttgat tcccgacaag tcagcataacc cttgagagtc ttttcttttag 360
 tcgggtaagt cttgctgagt aattccatac tcagggtctt attccctggg gtacattagg 420

ttatagtact gctctgttgt ggatggtgct aagtgccggt gggct 465

<210> 56419

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D6

<400> 56419

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gacgggtcct gcactaccaa cgctatggtc tctcacaact ctgacttcaa ggaacttctg 120
aatggcgaca aggagggcct tattaagctc ccaagtgaca aagccctgct gagccaccct 180
gtcttccgcc ctcttggtgca gaaatatgct gacgatgaca aggcattctt tgatgactac 240
cacgaggcgc acctcaggct ctccctactg gggatatcctg atgcttaaac gctccatata 300
caggagcgcg acacaaactg ctgcctgtat ggacacttgc gattcatgat gaaccatcag 360
attgcctatt gtcgcctttg taataaaggc atatgctctt agaacttoga ctatggctga 420
atctgaacct atttt 435

<210> 56420

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E11

<400> 56420

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gtccggacca gaatcgcat tgcattctag tagatgtctt ctaccggcac tatatatttc 120
cttttgtttg atgtgtaatg atgttactgt tcaacgctta ttaccctact atactgttgg 180
atgttctttg gacctaaaaa aaaaacaatt acaaattcaa ttatttatatg taataattca 240
ttaaaaatgc atacaaataa gaaaaaatac agaatgtctt ttggagcaac aaaaaatttt 300
gtaaatagag aaacaaaaaa aaaggggcgg cccttttttag ggtccaacat tttct 355

<210> 56421

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F10

<400> 56421

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ggactcctga aaccgccagg ttggtggaga ctgaagaacg cggatctact tggcatggaa 120

agggatatgtg gtgcagtggg tctttcctgt agttacaagt cttcgttgcc actatgagtg 180

gatactgtag cgaatgaacc aagacgaaat gatgctatgt taacttaacg tctgtggttg 240

ccttgaactc tggaaccgta atgctagcat ggttggttgg tgcgctaaaa aaaaaaaaaa 300

aataaaataa aaaaaaaaaa aaaaaaaaaa aataaaatat aaagaaaaat 350

<210> 56422

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F11

<400> 56422

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catagacaga tggttgaact tggatggtgc catgcgtaca tatgttggac ctaatgcggt 120

aatggaccgt cggccaaatt caatcgctc taggtaccac accggcgacg gcgtcttcgg 180

caaggcttgt agcagtagct catgcaggta gtgatgacaa gggactgtta gcgaagaatg 240

tgcacagcgg ccaatggtca tgtaaattgt tcatcgata gaagtgcag tgacaattag 300

ccacggtttt gtaattctga gctaggatta gctattggga ccctgtaatt cgtctgggca 360

gacctcaaac tagagggtcaa caacgtagcc tggcctattg tagaatgtat cttgcctac 420

<210> 56423

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F7

<400> 56423

aaatcttaca taatgcttat tgggtggtcgg taaaccata aggcaagaaa ggcatacaag 60

cttttaaaga

70

<210> 56424
<211> 261
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-F9

<400> 56424

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cgtattgcgt tgggtgctgt acgagggcat cacttggtgt tctatgcccc cttccctact 120
agattttctt ttctaccctg ngcctggaga gatgtttctg tcatgactgt cattgtggat 180
ctcgcgatat tgttatattg aagctnttgt gcttgttcaa gaaaagaaaa tgttggtgcg 240
ataaaaaaaaa aaaataanaa t 261

<210> 56425
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G5

<400> 56425

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taatgagaac gatggcaact cgcagggttg ttgggaatca aacaggggcg actcaggttt 120
ttacagcaac gacctgatat caactaaaca gagcaatgtc agagacattg tcaactaaac 180
agcaccagca gcataagatg aaactgtctt tgaagagata tgggtggtctg ctgaagaaga 240
aaagcgaaaa ttagcataag aaccatttga tcatatgctt tggtctattc tttgatgcat 300
atttctttgg cgagccatct atttcccaag tcttcacata tggtatggaa agcaaagaa 360
ggatgcttca atgaagaatt cagaatg 387

<210> 56426
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-005-Q1-K1-G7

<400> 56426

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agatttgtga cgcaatgtga gtaacatctc agcagccatc tcagcagtca accaaggaac 120
caatcaggca tgggatgccc tgttgtatac tctggcaaag ggcatgcttc cttttgtgaa 180
aaacatccat gtagttttct caaggaatcg caatgtgttc tgtggaacac atatgttgta 240
gtcaaactcg ggttactcag cttgtaaaac tagcctnctc ttgcttcctg gttactgggc 300
tttgataact ctcaggcttc gacttgtgtg ttgctgttaa atatgtataa gaaacttcta 360
ctcaggttga tctgtgaa 378

<210> 56427

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H6

<400> 56427

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ggtgttggaac ctggcagaga tgctctcata tacaagtaaa agcaacttta tttggtcctt 120
ggttgggcgg aaacctggcc gggactcggg agcatttgca ttttcttggc gtggtagctt 180
ttgatacggg gaagtcactg actcgtggag tgatgttgct caataatcag aaccttggtc 240
taatacagcc gctgagacat cagctaaggc gaataaggga aggatgagtc aaaaaaaaaa 300
aactaaaagg taaag 315

<210> 56428

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H7

<400> 56428

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actgcatgca tctcagatgtg cccttgtatg taaataaata aattgtcatg gggtttattt 120

tatcgtcgtg atagcagtga attttaacta acagctcaag gcaggctagc agaatagaaa 180
aatataatat ggatgcatgt cttgtttc 208

<210> 56429
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A8

<400> 56429

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cgccgcgcga cggagcgacg gctctgtttc gtttcctcgt acttttaggc cagtgctaata 120
aggttgctcg aggaacaatg tactgtggaa atttctaata tattccaaat tgtgctgat 179

<210> 56430
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B3

<400> 56430

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ctaaattcaa tt 72

<210> 56431
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C2

<400> 56431

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ttttggtgac aaccctctg ctattgaaaa tgatccctgc aatgggcccac gtcgggggttc 120
ttttgagatg gttttctgtc gataccaatc agctgggcct gaaaaatgat gtcctccgca 180
tcgatagcgg caagcgcata aatctgatag tccaaggctc acatgactca tgacacattt 240
gacacactgc aagctacttt ttgtatggct taagtttaca agctctgtaa agtgttttca 300

cctgtactga agagtttcta gcagatatatac gaggggtggag gcaagagaac tcaactcaga 360
tcttgctcct agtgcaagat caatcctccc ccgtcatga 399

<210> 56432
<211> 73
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-006-Q1-K1-D12

<400> 56432

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nnnnnnaaaa ana 73

<210> 56433
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D7

<400> 56433

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gaaaaggaga aagggaagga tcgatcaagg agagatgaaa tggagtttga tggtgctgat 120
ttgaacaccc atggtgcaaa agataagaaa agagataaag ataaagaaaa gaaacataag 180
agacgtcacc atgacacaga tgatgtaagc tctgagaggg atgataaaga cgatgctaag 240
aagtctcgga ggcatagcag tgatcgcaag aaatctagga agcatgcaca tggctcagat 300
tcagatagtg aaaaccggca c 321

<210> 56434
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-E4

<400> 56434

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atgagcgggtg gtgtattgta attgtaaaga gggctgaaag aaaggccct ctggttgggc 120

gtgtcaccaa agagtggccc tagaggcaaa ccttacgttt gctcgttgcc cttggtgtgt 180
 acccagatgt gtatcgatga cataggetgg ctgctgtatc atcatcaggg ttgacgctga 240
 aaaaaaaaaa aaaaaaaaaaag ggcggctctct ctagaggatc catgcttact tacgcgtgca 300
 tgctactata tagctttttt atagtttcac ctaaatttaa tt 342

<210> 56435
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-E5

<400> 56435

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 ttcagtaggc cttttttcat gggtctagtt gtatttgaat ccagcgtttg ccactaagat 120
 aaatcagaca ttcgttttgt gaacctatta tgatggagct ttatttgctg ataatatcta 180
 aa 182

<210> 56436
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F10

<400> 56436

ggggggggccg gcaagcttgc gcgctacaac aagaagccca ccatcacctt ccgcgagatc 60
 caaacctccg tgcgcctcgt gctccccggg gagctcgtca agcacgccgt ttttgagggc 120
 accaaggccg tcaccaagtt caccttcttc taggcttgca cgctcgccct ttgtaggctt 180
 ctcttgggtt gatgttcccc ttgagttgta actagatgtt gcttgggttat ttgtcggcgc 240
 tgctcttctt ttgtaagaac tgcgtcatgt aaccaccaa g 281

<210> 56437
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F5

<400> 56437

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aaaaaaaaa gggggaaagg a 81

<210> 56438

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-G1

<400> 56438

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acatgaaaga aggcaggga aaataaaaaa accca 95

<210> 56439

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-G8

<400> 56439

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cgattgggca tcttaaacat ccctatattgt aggatgaaac tcagaactgg tggctaccaa 120

taaagtctg ttttttttc 139

<210> 56440

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A10

<400> 56440

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ctttgtctgc attcaaagga ttcattctatt gatgtcacia gcctatgaaa actggcgagt 120

gtgaatcctg atctacgact ccctgcgac ataatcctgt gactgctggg tagtgtcaaa 180

tgcagtctgt taaacttctt gatgcgggtca ctaatacaag ttcataaaaa aaaaaaacia 240

aaaaaaaaa caaaaaaaaa aaaaataaaa aaaaaacaaa aaactaaaaa aacaaaaaga 300
caactaaaaa c 311

<210> 56441
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A3

<400> 56441

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ctttatgcat gtccattctg gaataagcat taaaagctgt ctttcagaaa ataccaat 120
cagtaagtac tttaaatcgg cagcatgcac attccagtcc ttgtgtatac tatcattact 180
ttatagcttg ttgcatggac taagcactta agataaaaaa ttacgatggc ttatctgaag 240
aat ttgatgt gttcaaggaa aaagaagaat ttgatgtgtt gtgcattttg aaaagacata 300
tttcatgcag tgcttatcaa gagcccttcg ggatgagaat ccaaaatttc tgatggcagc 360
atcaaccttg ctctaccat ttcaaccctt gatggtttca gctgtccaca cggggataat 420
ggagggttca tttgctaaac gagcatcaat agat 454

<210> 56442
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A6

<400> 56442

accactcgta cggccacgac tatacgaacc caaagctaac agatgctgtt gggcagaagt 60
gggggagacc ctttgagaac ctatatactt ttgatatgga aaatcatata cagttcactt 120
agtctgttta acattcgatt tcacttgctc caaacgaaaa atgcgatcca atgttcgtgc 180
gatttctgtg taaaactgtt atacttttaa ctgtcctcaa ctatccattt ttttatatat 240
aatgtcttgg tgttaaaaaa aaaaaagggc agaagatata aaggaacc 288

<210> 56443
<211> 256

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C6

<400> 56443

aagaaaaccg ctgttagata agaaatacac tgctgtgtat tagtagttaa tgacaagagt 60
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 tactactacc agtctaccag atcgatgttg accttgtggc agttgctgca gttttttttt 180
 tttgacagag aaatctgtac cttatgctgt gtgtgttttag aataagaaaa tttttctcca 240
 aaaaaaaaaa tcgaac 256

<210> 56444
 <211> 474
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C7

<400> 56444

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 aaaaaaaaaa aaaaaataac aaaaagaaaa aaaataaaaa atataaccat ataaaaaaat 120
 aaaatccata aaaaaataaa cataaacact actactaacc tatctacca atcaatatat 180
 atccttatat caattgctgc aatttttttt ttttgacata catatctgta ccttatgcat 240
 gtgtgttatt tcagaatata gataaatttt ttcttccatt atatcaaaaa tcgtaaacta 300
 tcttttatat ggcacccgtt ttaaaggatc caagcttacc tacgcgttct ttctacatct 360
 tatctcttct atattgtcac cttattttaa ttcactttcc atcgttttac aacgtcttta 420
 ctgtgaaaac cttttcttta cctatcttaa ttttttttca ttacattctc cttt 474

<210> 56445
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C8

<400> 56445

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gcagcaggca tactggtgct ggaagacggt acctgctgtc gcacttgccg ttataatagg 120
cattggaact tgtcgatttc gggagctgat ctgtttgtac cgtattgttt atttataata 180
tgatggatcg tatgttgata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaactac 240
aaaaaacaaa aacaacacaa a 261

<210> 56446
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C9

<400> 56446

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ttctcgccag ccgtaagacc gtcaccgccca tggacgtcgt ctacgcgctc aagcggcagg 120
gccgcaccct ctacggattt ggcggctgag gggtcagggg tgtccgccag ctgctgctgg 180
tcgtggcaga agtcttgggt cgcggtcacg aaatggagtg attcgagagt attcttgccc 240
atgggcttag tttcgtaggc ttatcactct agactctagt gccttggtcc agtagtagca 300
tacgacttgt actgcatttc tttgttctga acctctaaat atgatgaaat gtggattcac 360
tggatctcac agacaaccag tt 382

<210> 56447
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D1

<400> 56447

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cttcgtgctg gttgtggttc taaggctctg attgccggcc gtccgcgctt ctctcttgcc 120
aagacgagac tctcctctc ctgccactgc taccgctgct cctctcaact ggtgaactgg 180
atcctgattt ggggagaagg ttaaaactgga tgcctatgta attaattgca tctctttacc 240
attctacgta ctactagtat tgaagtaaaa aaaaaaaaaa aaaataaaat aaaaaaaaaa 300
ataaataaaa aaaaaaaaaa ataaaaaaaa aataaaaaaaaa aaaaaataaa taaaatcata 360

aataatttat tattataaaa

380

<210> 56448

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D12

<400> 56448

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ggatctgagg gtccacttca agaacacaag ggagacagcc tttgcgcttc gcaagttgtc 120

tttgaccaag gctaagcgat accttgagga tgttattgct cacaagcagg caattccctt 180

ccggagatac tgtgggggtg ttggctgcac cgcgcaagct aagtcgcgcc actccaatgg 240

gcagggccgc tggcccgtta aatcagccag gttcattctg gatttgcttg agaatgctga 300

gagtaacgct gatgtgaaag gcttggatg 329

<210> 56449

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D2

<400> 56449

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gacgcgtggg ttgcgcttgc ataaatgtgg ccgtaatgtt acatgccctg aacttgtagg 120

gaggtgttca attgtgcgtg agcttcatgt ctatggaact gcagtccctg tgcattggccg 180

cgatgtggac aaactgcac accagggata ctgaactcta ttaatggaag aagcacaag 240

gattgctcga aaggagcacc gatcgaagaa attagctgtc atttcggggg ttggtactcg 300

ccactactac cgcaagttgg gttatgagct agaaaggccc tacatgggta aatgtttggc 360

gtaatgctat ttcattttcc gtatcatata gagcatactt ttgtttgtaa tgtata 416

<210> 56450

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D3

<400> 56450

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caaccgcacc gtctaggtgg acgtgggcct tagcgacggc agctacgcga ggggggcccgt 120
accagcggc gcacccactg gaatatatga ggccttgag ttgagggatg gaggatctga 180
ttatcttggt ctcccgctcc atgcattcca agattctgtc ctccccctcc ctccccccat 240
gttgtaggct ggtagtggtc aaattagttg gccctgggtc catttggtact gatgtattgt 300
ttactgctat tgaagtcatt cgttctaaaa aaaaaagaat tt 342

<210> 56451

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-007-Q1-K1-D5

<400> 56451

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cccacgcgtc cgtattttta gcctaattgt tcagggtcaaa gggccatact tcatagcttt 120
ttgctcctca ttgttttaag tgaaagggcg ccaactattc aaaatttact ctaggtagat 180
aattttcatt gtcgagtttt attttggtat atgtaacttt ttgtaattgg gcctaagcgt 240
attggagcac tctaagttaa caggtgcttg aagctgatga tgaaattata cagcttggtat 300
gaataaacct ttgttgtagt gacataagga gtttcgaaat tacaaggaat tttaaaaaaa 360
aaaaaanaaa an 372

<210> 56452

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D6

<400> 56452

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tctcctactc ttcctaccgc acctccgtgc actcttccgt attttttagcc taatatttca 120
 ggtcaaactg ccatacttca tagctttttg ctcttcattg ttttaagtga aagggctcca 180
 actattcaaa atttactcta ggtagataat tttcattgac gagttttatt ttggtatatg 240
 taactttttg taattggggc taaccgtatt gtagcactct aatttaacat gtgctataag 300
 ctgatgatga aattatacag cttggatgaa taaaccttta ctgtagttac atatagagtt 360
 tctaaattac aaggaatttt aatttaccta actttatctt cttat 405

<210> 56453

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E1

<400> 56453

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 gagaagctgg tgcgcactgt acctagggcc cagtgcccat tcaaaaaaga gaatgcacta 120
 actgtcagac atgctgctga aatgggatga tggataccgc gacacattgc ttacactgat 180
 acacatacat gctgtactga atctgctgag ccaaatacaga agcagatgat tacaagctgg 240
 tagctaggac atgagcacc tttgtggggg attcttttat ggtcctat tt gattgtatgt 300
 atacttatag gaatgaaggc aaacacacct aagcagcatg tgtgatattc ccatgtgcta 360
 ataaagaaaa tggcttgtt 379

<210> 56454

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E2

<400> 56454

attttggttt ttttgttaca accataaaga tcagcactaa cattaatgac tttgctaaca 60
 taagagtgtc ataccatgcg tgccatacaa actacaggta cattcatata tagcataact 120
 tacagcacat gatacaagct acagagcacg gtcaatctta aatatataaa aaagacaata 180
 ttgaaggctc tgatgatgga gagaaaccag ggcaggcttt ccccgcaa at acggagaagc 240

tacttccaac cagtgcacctt gtgaccggac gcgtgggggtt acggacatgt acccaaacgt 300
 gatccagttt tagttaatgt gctccatgct tgacgtttta aaaaaaaatt tttttttt 358

<210> 56455
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E7

<400> 56455

atattatttt tttttattat attatttatt tttgggtttt ttttttttta ttgttttttt 60
 tttttaatat tttttttttt ttttatttat tttttttaat ttttttata ttttttatat 120
 tttaaaaaaa aagctgatca aagtttaaaa aaaaatatta gaaaaaaata aaaataaagg 180
 ttaaatacatt tatcaaaaaa aaaggtttat aatttgatga aaaaaaaata aatatgattc 240
 aactatctgg aaaactttta aagaaaaata ggtatgactt agaatag 287

<210> 56456
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F11

<400> 56456

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 aagaggagga agaagaagca tcggcagcat gtcggagggg actgccaact gcgtggacat 120
 cctgatcgcc atcatcctgc ctccgctggg ggtgttcttc aagtacgggt gcggccacga 180
 gttctggatc tgctctctcc tcaccttact cggtacatc ccggcatca tctacgcoat 240
 ctacgccatc accaagaaca actagctagt catccttgcc gacgacgatc catgtctctg 300
 catctgcgtc tgttcatatg cctgatgccg acttgtgctg tatgtaattg cttgaattca 360
 gtcgtgtttt gctaccgtac ccaatccatg catcatc 397

<210> 56457
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F8

<400> 56457

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aaaaaaaaa aaaatataga aaatagtga aatttaaaat tttcattagc ataaatggac 120
actcattctt catgttccaa tcttccttac tctaccttc taggcatag tttttcattt 180
actgtcactt aaattcaatt cactgtcctc aactttatac cttctcatct gttaaaactt 240
ttgccttctt tatttatatc gtattggccc acatccatct ttcttcatat cctttactct 300
catctattcc cgaatagatc gccttttcta acatttct 338

<210> 56458

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G6

<400> 56458

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cagggatgac caaactgtgc tacaacggac ggaccggaag aagctgaacg tgaaatccat 120
tgtgaagacc ctctgaagt gagtgcacca ccgtgttgaa gtgcagtctg cccaaagtct 180
gttatctatt gtatccccag tgaccttctg cctctcatg ttggacgtcg tcgtgtattt 240
gtaactgtcg gagttgcaac aaaacttgtg tgcttgctgc aacgtgtgcc gtcttgctct 300
aataatgcac tatctgc 317

<210> 56459

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H5

<400> 56459

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gataccgatt ggtgctatca tggagtcgag acttaccag acgctgcacg cgaaacctgc 120
tgacgactgc atcaccttcc atcagaccct cctacactaa tacattgcaa ttcttaaadc 180

ctaaggactg gtaccaacat ctcattacat tctacaattg actctatgct agttagcgat 240
ttaaagatctt acgatctcta gaaaacagtt tagaatctta cataccaacg acc 293

<210> 56460
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A3

<400> 56460

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aaaaaaaaa aaaataaaaa aaataaggac ccgtttacaa agggtaatgg taaaaactaa 120
tttataaaat ctaaaattta tgtttgcaaa aaagtactaa aaaaaaacia aataaataaa 180
aacaaaatct tagaacttaa aaatgactca ctatctaaag gttcaaagtt taatctcaca 240
tcatttacia tgaaaacctc ttttatctgg agacctaaat taaaatcatt gtcttctatt 300
ttaa 304

<210> 56461
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A6

<400> 56461

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acaaaaaaga gcccatgcat gtatgggcac aaatatTTTT acaaaagaat cgaaaacctg 120
gaagaacaaa agcatctcgc aggctaaacc ccaagctata cctatctaca cagggttcacg 180
tttcagtatc ttccgattgc gaccctact ggaacaggaa cagggaacca aggtttacgc 240
atgcaagaag gctactgcta ttcctttaca aagagccctt tgaatttgat gatgcctgcc 300
aggatttctt caagcgaaaa tgatatatat atataaccca ttatactc 348

<210> 56462
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A7

<400> 56462

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gtcggctgcc cggctgccgt cctcccgcta cgagctaggc atctccttcg ccgatccaac 120
atgggtaaga cacgtgggtat gggagctggg cgcaagctca agaccacag gaggaaccag 180
aggtgggctg acaaagccta caagaagagc catcttggca acgagtggaa gaaacccttc 240
gctggatcat cccacgcaaa gggaatcgtc ctggaaaaga ttggcatcga ggccaagcag 300
cctaactctg ctatccgtaa gtgtgctcgt g 331

<210> 56463

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B1

<400> 56463

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acacctgcat ggattgatgt cttgatgatg tagtgcaatg tagcattcag aacaataaag 120
acatgttttcg gactgcaaaa aaaaaaaaaa actaaaaaca agctaaaaaa caaaaaaaaaa 180
gaaccaaaaa aagacaaaaca aaacctacaa aaaaaagcca taatggcaac aagtgaaaaa 240
aaaaaaaaaa aaaaagggcg ccccttttaa aggatccaag ttacttaca cttgcatgca 300
aggc 304

<210> 56464

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B2

<400> 56464

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gtgcgggctc tgcaaacgcc gggcttgggc ctggctacaa acctttatct acaagggcta 120
agtggcattc tgccagcagg agtgccggga gaagcacatc tgagtacgac aacctctact 180

tgcgcatgga gcatacctgc tt 202

<210> 56465
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-008-Q1-K1-B3

<400> 56465

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agggttaaagc gataggctaa atctttggta tatttcattt tttcaaactc cttactgctt 120
ctttatgtca acttcgacct tcctctctct ctctcttttt attgctattg tgacttgaaa 180
gatgtagtaa cagggtattct acatttatgt tcttctcatc cggattgcta taagttttct 240
tcagttctgc acaactagtt gctctgcang atagtgtgta tccgctttat gctaacttat 300
atgcattttg 310

<210> 56466
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B9

<400> 56466

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agttcctacg aaagaaagcg ctgaaatcat agactacctg aaggcaacat atacggtcgg 180
ccgctgtata ggatccatgt cttacgaact cgtgattgca acgtcatatg tatattatag 240
tgttacctaa attcaattga ctggccgtag ttttacaacg cattctactt ggaaaaccct 300
g 301

<210> 56467
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C2

<400> 56467

at t t c c g g g t c g a c c c a c g c g t t c g g t a g c a t g g a g c c t g t a t t t a a a a g g g t g a t a t c 60

c t g t t t t t g c a t a t g a g c a a a g a t c c t a t t c g c a c a g g a g a a a t a g t t g t t t t c a a t g t c 120

g a t g g t c g t g a g a t t c c a a t t g t t c a c c g a g t g a t t a a g g t c c a t g a a c g t c a g g a c a c t 180

g c a g a a g t g g a c a t t t c t c a c c a a g g t g a c a a t a a t t t t g g g a t g a c c g a c t a t t a t a t 240

g c a c a t g g c c a g c t t t g g c t t c a g c a a c a c c a c a t t a t t g g a c g t g c g g t g g g t a c c t t 300

t c a t a t g t t g g c t g g g t t a c a a t t a t c a t g a c t g a g a a a c c a t t t a t t a a g t a c c t g c t g 360

a t t g g c g c a c t g g g t t t g c t g g t c a t a a c g t c g a a a g a t t a g t g a t g t c 409

<210> 56468

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C4

<400> 56468

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a a t t a t a a a a a a a c a a a a t a a a c t a a g g g a t c a a g t a a c a a g c t c a a c a g t a c t a a a c a 120

a a c a c a a a t g a a t a t a a a a t a c a a a a t a a a a c t a c a a a 159

<210> 56469

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D1

<400> 56469

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g t g t g t c a g a c g c g t g g g t a t c t t a t t a t g g g t a t g g g t t g c c t t g c a c a g t g t t a g t t 120

g g c c a t t t t t t t g t g a g g t a c c t t t g t g c a a g t g a a t a c t g a a t t g g a g g a g a a t c t t a t 180

g t a g g g a a t a t a g a t a a c a g g c g c t c c a t a t a t a a a c t t c g t t a t t a g g t g c t g t a t g g a 240

c t a t g g t t c a c a t a t t t g t a a c g t g a a c g g t a a c c g a t a a t g t t a a a a c a t g t t t g t t t a 300

a t t t c a a c c g t a a t c a g a t a c c a c t a g a a a c t g a t a t c a t c t a a a t c a t t a t t c t t g 360

caattttaagt tagtggagaa tcttttagcgg gcaaggctag caactcaciaa tgtgaagagt 420
 gggcgtagcc gaacacctta agactgattt catggctgta ttacatgcc aagtgttttt 480
 cgacgcat 488

<210> 56470
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-D3
 <400> 56470

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 agctcttgct tatgagtact gaatcagggg atgtgaaacc attgcacaga cttacctgaa 120
 catttatcag gtaggtacct ccatgcaact taacactgaa tagaagggtta atcttactta 180
 ttgaatatcc ataaccagcg ctccatatat taactagcca aacaagtgct gcatggacta 240
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<210> 56471
 <211> 248
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-D4
 <400> 56471

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 gtggtgctgc tggagatcct gatctgccgg aggtgcgtgg aggcggagta cgtctagggg 120
 agcaacatcg tggactgtac gaggcgtaat gtcgccggcg gcaacttcat ggacgctgcg 180
 tactgtgcat accagctgac ctgtgaggcg gtccagcact agacggtgtt gtcgctcggc 240
 atggatcc 248

<210> 56472
 <211> 485
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-D5

<400> 56472

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tcttttagtg gttgcaagag ctgataatga gtatctgttt gccttgaca atgttagttg 120
gccatttttc tgtgaggtac ctctgtgcaa gtgaatactg aattggagga gaatccttagg 180
tagggaatat agataacagg cgctccatat ataaacttcg ttattagggtg ctgtatggac 240
tatgggtcac atatttgtaa cgtgaacggg aaccgataat gttaaaacat gtttgtttaa 300
gtccaaccgt aatcagatac cacactagaa actgatatca tcctaaatca ttattcttgc 360
aatttaagtt agtggagaat ctttagcggg cagggttagc aactcacaat gtgaagagtg 420
ggcgtagccg aacacctcaa gactganttc atggctgtat tacatgcaa gtgcttttcc 480
gaccc 485

<210> 56473

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-D8

<400> 56473

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cgcgcggtcg gccctccttt ccaccccgcg ggcgtactcc gctgccgctg ctgcggggcg 120
ctccccgacg tccccagcgc catacggggg cccccccca ccggcgatgt cgaagacggc 180
cgagttcgtg gtctctaagg tggacgacct gatgaactgg gcgcgtaagg gctcgatctg 240
gcccattgacc ttcggggtcg cctgctgcgc ggtggagatg atgcacgccg gcgcgtcccc 300
ctacgaattc gaccggttcg gcgtcatctt ccgtccgtcg ccgcgccagt ccgattgcat 360
gatcgtcgcc ggcacgctca ccaacaagat ggctcccgcc ctncgcaagg tttatga 417

<210> 56474

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-E1

<400> 56474

gaattcccggt gtcgacccac tcgtccgaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaggaaaa ctactaaaat aaaaaaaaaa 120

ggcctaacgc tctactggat ccaaccttac atcccccttga ttgcgacgtc taacctatta 180

ttttggggcca cctaatttca attaactggc cggcatttca caacgtcttc actggtaaaa 240

ccctggggtt cccaaactca ttcgccttgc agtacatcca cctttaacca tctggcgtat 300

tatcgtacag gcccttaccg atagcccttt caaacatttg tccagcctta ttgtcgaatg 360

taactcccc tgtagcgggg cattacgcgc aacatgtctg ctgcttacgc ccagcttaac 420

cgttaca 427

<210> 56475

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-E3

<400> 56475

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tagaatcgag gacataaata gtcacaatcc gaatatcatt gtcctatagc gcccaaaatc 120

ttgggtgcca attctcataa tctgagtcac ctgtgtcatc actttcagat gatgaagctg 180

ctagatcttc aacgcgcaat atgtatttag caacctgac caggatgtat caggtaacag 240

aggtcgtagt tttacttcat ggtgtctatt cttagggcaa tgggtgtggag aagcacatgt 300

gaagttgctc agccaaataa ctgatctgca atgcgcacat agtgctctat ttgatacaaa 360

tttccatgac gcgcattctt catacttagt gtggaaggac tccttncagc taaagcttgg 420

ataatttg 428

<210> 56476

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-E7

<400> 56476

aattccccggc tcgaccact cgctccgccc cgcggttctct gactcgtttt cagcaatgct 60

tcaactcaaaa caacaaactg ggcctggcca catacataat tcaacaaact aataaaaaatc 120

aaacacatca aactgacaa aaaccaacaa caatggccca atctttccca aacccaagct 180

tccctaccct tacattctaa gtcatagctc ttataatttt taacctaaat aaacttcaat 240

ggcctcaagt ttccaacttt ctttattgga aaaaccctg gctttcccaa cttaatctag 300

ttgcaacaca acccccttta ggcaattcct aaaa 334

<210> 56477

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-E8

<400> 56477

aattccccggc tggaccacg cgctccgtcca cgcgcccgga tttgcagtct acttttgttt 60

tatcgtgcaa tacctcagga aaccgtgcct acatgatgcg atcgaaaccg gagacgttcc 120

tgggtcaagc ttcgttccgt aaaataaata aatccgaagc acttcaaagc tctacatact 180

cgcccttgct tgtttgagac aagggcttgc gttcttgctg catctcatcc gagatgattg 240

taatccgaac aatgtgtagt taataaaaaat gtcgctttgc cctgaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaaaatt aaaagatata aaataaaaa 339

<210> 56478

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F12

<400> 56478

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ggcgttgct gaacgtgcct aagctgatgt cattctggga cgatgaactc atcatgtgtc 120

acagctacaa gatagacgag ccgtggatat ccgtgctgaa cacacaatac agcctgtgga 180

acaacgctaa ccaccatcat cgtgctaacc tccgtacatc actagcgcgc gatctagagg 240

ctccacgatt tcgtacgcta ctatgccaac cgatcgatca ccattcggga gaacatgctt 300
gaagaggatg gccgtccttt caaagagatg gaaatggtaa taaagcagcc ttacacaact 360
ctattggaca tgctgacaac gcagattcag gacatgaagg tcatgacgac actggacatc 420
ctatcgtcgt actcaacag 439

<210> 56479
<211> 288
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-G12
<400> 56479

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tgtttcagat tctatataaa tggcagacac cactcggctc cattaaatgc cgtatctgat 120
aatctgttgc ctaaattagc tcagctaaat attgtcgtta ctaccctatg ttactgctct 180
cttggagtct tggcccttgc agtagtttgg tattggaatt tcttttcgtt agcaaacatg 240
ctgagacatt tagttgaacg aacctgagtt gttccgagaa aaatactg 288

<210> 56480
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-G7
<400> 56480

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gtgacttgcc gagacatagt tatcattggt tatctataat agctcaatcg actcgtgcaa 120
tctgaaggct ctgctatatg cggttaaggc gtctatgtaa ctttgtcata gttgatgtca 180
gacggctcaa atctgaatgc tatgtatatg tggtaagttc gtctatgtgg ttgcgtcgtc 240
taaaatgcgc agtttttggg ccgtaataaa tttatagaag atgcataaca cgccaaagtt 300
ctgtgagagc attgttttaa ttttgccgta atgaaaatca ttaatgttca ggggcggcca 360
ttttaaaggc cccacgtttt agaagattca agcttacgta ctcgtgct 408

<210> 56481

<211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-H1

 <400> 56481

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 aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 180
 ggcgccccctt ttaaagaatc caactttact ttcccttcat tgcaacttaa tacctttttt 240
 atagggcccc caaaatcaat ttcattgccc cttttttaac aacttattaa ctggaaaaac 300
 cctgggttta ccaaatttaa tccctttgaa aaaaatcccc tt 342

<210> 56482
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-H6

 <400> 56482

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 caagcagacg atgtaactca cataaaaaaa actatgttcc gcattgcaat gtttcgcaga 120
 acaagacctc ctagaccctc gactggattt cgacatctag cctgcgtagc catatccaga 180
 gatcttcag accctgatag acccatcggg gtagccagtg tagagggtgc ttccatcggc 240
 gctccagctc aagcttgtgc agtacaggat ctgggttcttg gagatctgga tgtcaggctt 300
 gaagtccctgc acgacgtgct tcgactcaag gtcccagatc ttaacagagt ccct 354

<210> 56483
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-H8

 <400> 56483

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caagtgcagt caaattgggc attatggtaa tgcttgcccg atggggaatt ctggtacacc 120
agctaagaac aagcaataga cccttgcaa gggatattct atagccaggg tgaatcaagt 180
cagcgttgat gatactcctg atggtggtga catcgtactt gacgagcaag ccactgtgga 240
atctgagggt caacaagtag agatagctga gcaggagctc attgaaggag aagaacaggt 300
ggtcgaagag gagccgacta aactgaggc attcgacttg atctacgtgg tgtttctcaa 360
tcgacattgg cgccgacaat ccttagttcg ttttacattt attattttac tttgtaataa 420
gtctttcgct atgtaataaa cactctgatg atttat 456

<210> 56484
<211> 253
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-B1

<400> 56484
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tgaatataac tgtaacatca cgctgtttt gtgaaagctc gtgccttgct caattgtgcc 120
acttttagcag acatccccag ctcacctcat cctggctgga gatcatatca tatgcagata 180
tgaaatggaa cgttggatca gagttttagt ggacgctcaa ttttttttga ggtagcngcn 240
nataaaaata aaa 253

<210> 56485
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-009-Q1-K1-B11

<400> 56485
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aggacgtaca ggcgtacatg gtcggcgagc gggcgacag ctccgtggcg gtgtggtcga 120
gcgtgagcgt ggcggggatg ccggtgctca agtcgctgca ggagagccac cgctgcttcg 180
acgaggaggc gctggagggc atccgccgcg ccgtcgtcga cagcgcttac gaggtcatca 240
gcctcaaggg ctacacctcc tgggccatcg gctactccgt cgccagctc gccgcgtcgc 300

tgctccggga ccagcgccgc atccacccgg tctccgtcct cgccaggggg ttccacggca 360
tccccgacgg gaacgacgtc ttcctcagcc 390

<210> 56486
<211> 279
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-B12

<400> 56486

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gccccatggg acgaaggtga tcaccatatt agtttggttg taggcgagga gtcgggtcga 120
ggtagctttt tagacgaccg aaaggcgaaa ataagttgag gatctgcac ccaaatttgt 180
gatgtaaact gagacagaac agcagccaaa tgaagcagag atttgctgaa agattctgta 240
actggttgca gctaattgtg aatgcagttt gcccanaat 279

<210> 56487
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-B7

<400> 56487

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ctcgtggaag gctgaaagag gatgacgcaa ggaagtactt ccagcagctg atcaacgctg 120
tcgattactg ccatatccga ggcgtctacc accgcgatct caagcctgaa aatctcctgc 180
ttgatgctag cgggacgctc aacgtttcgg attttgact gagcgacta tctcaacaag 240
tccgagagga tggctctgctg cacacaacct gtggaactcc caactatgtt gctcccagg 300
ttataaacia taagggtat gatggagcta aggctgatct gtggctcatg ggagtgattc 360
tctttgtcct catggcgggg tacctcccat ttgaagattc gaacctgatg tcgctctaca 420
agaaagtttg ccagtct 437

<210> 56488
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-C1

 <400> 56488

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 aattaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga aaaattaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaatattt taaaaaaaaa aagggtggga attttttaaat 240
 ttactaatct tttttagcct tttttttaa ttttaattct ttttttattt aacaaaaaat 300
 taaattaatc ttcccccttt ttttataaaa tcatcttatt ttaaaaaatt ttactttaaa 360
 tattttattt tttttaacat tattaccctt ttt 393

<210> 56489
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-C10

 <400> 56489

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 acctcccttc agaactccga aagtcacttc acggtacgtt ccattttcat gcgccggaga 120
 agagagtact gagaggcgac aagaagatca ctagacacca ctgtccggtc taggctatct 180
 tgagaaaggg ttcttggtgg gctaaatgac gaaagaaaat atccaggact ggggtggcat 240
 tcaaacaatca actgagctat ccagtagcca ggttttaagt gtgttgtaat gcttcaatgt 300
 gtttcatttt ccaaagacct gagcttcgct tgtgatttgt tccgagctgt acgggtgtcga 360
 ttttgtgtat ataataaat ataacgaaat aaagggtntt t 401

<210> 56490
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-C9

<400> 56490

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 cggtttaaaa aaaaaaaagg aaaaaaaaaa aaaaaaaaaa nnaaatttaa aaaacgggcc 120
 gccccttcta aaaaaccaa acttacttcc ccttccttgc gacgccttat ctttttttta 180
 atgtcaccta aatcaaattc actggccgtc tttttacaac gtcttaactt aaaaaacctt 240
 tcctttccca aatttaatcc ccttgcaaca aatacccctt t 281

<210> 56491
 <211> 253
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-D1

<400> 56491

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 cccctgctcg tcaactctcca gggcccgat caaggggcac gagctgcact gaaagagcaa 120
 gacggatctt caagcacatc tcaaagagct taaataaaaa ctcttcctcc tacgcgtgga 180
 caatgtaacc ggcggggctg ccaacaagct ctccaaaatc aagattgtgc acacctgcat 240
 cgctcgcgtg ctc 253

<210> 56492
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-D2

<400> 56492

accggttcgg aattcccggg ccgacgcacg cgtccgactt gaccagcag ttaatggaac 60
 actctttgtt ctcggttcat gcatgaaagc ggctagtaaa attgtggatg tggcatgctc 120
 tatggctact acagcctaca acacgaggcc aaggactcct gaagtcacac tttacctgac 180
 atggggttgc gatccaactt tctgtgtac caacaagcta tccaatatca tgatcgagaa 240

cccccca

248

<210> 56493
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-D3

<400> 56493

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tatacctnntt tgttgaatca agnncttctt ggagaaggat tgggtctaac tgatagaaga 120
taaggggtga atattannnn attgctaaan ncttatacaa ttttattgtc atacattacc 180
aggatatatt taatttctan ncagagaaat tgttcgacng nngtagtctt atagatgcat 240
tgtcctgcat cttttacgag atatgggttag tcatttttga ccattttgtc aatgatctaa 300
gcatannggt atttgnnnga tgtta 325

<210> 56494
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-D7

<400> 56494

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tctgataact tcgaccctaa taaccogtat ggggacccgg tggggatggt cgagtaccgg 120
gaacacctgg tgcgagagaa gtggatccag atcgagaccg ccaagatcat ccgggagcgc 180
ctccgctggt gctaccgcat cgagggcac aaccaccacc agaagtgccg ccacctcgtc 240
gaccaatacc tagaggctac ccgcggcgtg ggttggggca aggatgcccg cccgcctgaa 300
ctccacgagc ccaagaagac cgtcaaggcg gagtagcggc gctgctgcct tgcttctcgt 360
gctgctgttc ctggattgga gaggtgatct gacccttcca ttgagttgaa tgaagtagcc 420
tggaactgtg gtagttcgtc ttttaca 447

<210> 56495

<211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-D8

 <400> 56495

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 tactggcaca tgtgctgtat gtgttggggg tggggaaagg tcattgattg caaatctgtc 120
 ancngcaaac tgttacaaat ctgagcatct aaagagacca gagaactggg cactagttga 180
 aaaggcaaaa tacatctaca ttgctggatt tttccttaca gtgtcgctg attctatcca 240
 gctagtcgct gagcatgctg cagcaaataa caagggtgtc ctgatgaacc tctctgctcc 300
 cttcatttgt gagttcttcc gtgatgccca agagaaggtc ctcccgtatg ctgactacat 360
 cttcggcaac gaaactgagg caaagatctt tgccaaagtc agaggatggg agactgagaa 420
 tattgaagag attgctttga agatctctca a 451

<210> 56496
 <211> 140
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-E11

 <400> 56496

aattcccggt cgaccactc gtccgaaaaa aaaaaaaaaa aaaaaaaaaa tttattaaaa 60
 aaaaaaaaaa acaaaaaaaaa aaaagaaatt tattaaaaaa gttgggacgc caaacaaca 120
 accaccctct aacaacataa 140

<210> 56497
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-E12

 <400> 56497

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aaaaaatttta aaaaaaaaaa aaaaaaaaaa aaaaggaaga aaaaataaaa aaaaaaaaaa 120
 agaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggccg gccgttttaa aggatccaag 180
 cttacttacc cttccttcca acgtattacc ttttttatag tgccacctaa attaaattca 240
 ctgcccgtct ttttacaact tcttaactgg aaaaaccctg cttttcccca acttaatccc 300
 tttgcaacac atcccccttt cccagttgg cttaatacca aaaagccccg cacctatccc 360
 ccttccaaac attttcccat ccttattggc tattggaacc cccctt 407

<210> 56498

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-E4

<400> 56498

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 aatgctgtgc tcatcctctg ttcacccgcg gataagggt gccgtcctta catgtgtgga 120
 actagctacc gccactcgaa ttgcttggat cagttcaaga aagcatacac caagggggca 180
 ttgcttgagg aagttcctgc aaatagcgtt ggcaactgatc tggattcagc gccattggat 240
 gcagaaaaaa tcgagtccat tgaccttgca tgtccattgt gtcgtggcaa ggtgaaaggg 300
 tggacagtgg tagaaccagc tcgaagctac ctcaatggga aaaagagaac atgcatgcaa 360
 gacggttgct cattcgtggg gacctacaag gagctccgca agcatgtcaa gttggaacac 420
 cctcttgcaa agccaaggga agttgatc 448

<210> 56499

<211> 189

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-009-Q1-K1-E5

<400> 56499

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 tttaaaaaaaa aaaaaaaaaa aaaaaaaga agggtttaaa aaaaaggggc gcccgtttta 120
 aaataccac ccttacttcc ccttccttcc aacattataa ctcttcttta gcgccacct 180

aattcaatt

189

<210> 56500

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-009-Q1-K1-E8

<400> 56500

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catgttgtct tgatggcgcc cgctgtagaa tccgtgaagg agacaggctc gttccagaag 180

gttcctgcct tgaacgaaag gatactgtca tccatgtcca ggaggtctgt tgctgcacac 240

ccttgccatg atctggagat aggtcctggg gctccaacca tattcaactg cgtcattgag 300

ataccaaggg gcagcaaggt taaatatgaa cttgacaaga aaactggact gatcaagggtg 360

gaccgtgtgc tgtattcgtc agttgtttac cctcacaact atggattcat tcctcgcact 420

ctttgtgaag acagtgatcc c 441

<210> 56501

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-009-Q1-K1-F11

<400> 56501

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gcatgttacg gcggcgcgct accggtnacg ggtgatgctg ctgcatcgtg cccctcggcc 120

cctcctccat ccccggcgcg gctgcgccag cagccggcct gcagctttat aatggatccc 180

aacatgaagc agcttcaaga ggctctgggt gatattgaga ctgatgcaga aaaagctctt 240

ctggctagac atcagttggt ggaaaatgat aagataagaa atggttacag gg 292

<210> 56502

<211> 128

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-F3

<400> 56502

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 tttcatctgt tatgttctga gattcatgat gatgcggtga gaactgaaag gcccgtaggca 120
 tgctttctt 128

<210> 56503
 <211> 204
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-G2

<400> 56503

caccggnccg gaattccccg ggcgaccgac gcgtacgccc aaccctccnc aatattcatt 60
 ttttggttgt gtctggagtt agtcagttca gggcttgggt atgtattata tactgngatt 120
 acaacacaag gttctaggtt gtattaatga tatgtcctga tcattcctgt gcccgttcaa 180
 aaaaaaaaaa aaaaaatatt tttt 204

<210> 56504
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-G4

<400> 56504

cgaattcccg ggcgacgac gcgtccgatt ttaaaactta taaatgtttt atacattcaa 60
 attgtaattc tttttaatca ttttctggtg gaatcactcc gatgattggg taatgtaaac 120
 ttattgtaac atgtaatcat tttgtaataa agaatttatt tccgctgcgg aaaaaaaaaa 180
 aaaaaaaaaa attaataaaa aaaaaataaa aataaaaatc agactaataa ggctctaaca 240
 taaaaaaagg ccaatacacg caaaaatata tctactatag cccctgttta cctggcggtc 300
 gttctggagt acctaccctt ttatgtcctg gaactcgccg gcaactcttt ctatgacaac 360

<210> 56505
 <211> 216
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-G5

<400> 56505

cggaattccc gggtcgaccg catcgcgctcc gaagaaagca canaatctct ggtagaagtg 60
 gacatcgtca aggaaaacat aagcatagag agaaggctag tactcagcct gatgctatac 120
 ctcaagctcc agtcattcaa gatttccttc tgtagcatct gagagactca tttggtacac 180
 ttgagttacc caatatatgt gttttttttg ttccctt 216

<210> 56506
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-G7

<400> 56506

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 actcttatca aactcatttc tcattaccca aattgtaaca accggcttct attctatata 180
 atttatgccc aacagaactt tgtataacca tcttttttaa aaacgtgctg atcctttttc 240
 atggacaata aggctcaaac ttgccattta atcttctacg agcttgtcat ttttacatga 300
 tgctgaaaac caagtcatat atcgtgattt caaagcatca aacattcttc tcgactcaga 360
 attcaacgca naactttcag attttggtt 389

<210> 56507
 <211> 302
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-G8

<400> 56507

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cccatgacct cctcagaccc nataagcgga gctgggtcca tggacgccac cggcactgta 120
tctggagggga aggcaaaaaa nggagcggcc ggtcgcaagg ccggcgggcc gaggaagaag 180
tcggtgacga ggtccgtgaa tgccgggctc cagttccccg tcggccgcat cgggcgctac 240
ctcaagaagg gccgctacgc gcagcgcgtc tgcagcggtg ccccgctcta cctcgcggcc 300
gt 302

<210> 56508

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-G9

<400> 56508

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aaaccttttc aaccggccgc agcccaactc cgccaccgtc tacgactggc tctacagcga 120
cgagaccagg atcaaccacc gctagatcgg gcgagatgga tggacagtga agaggccatg 180
tttgctggtc cttgggggta tctaaaacgc acgcatgctc taatatagct agtcatcact 240
atatat 246

<210> 56509

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-H4

<400> 56509

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ttcgtcgccc tcatggagtc cgcgtccggg gacggcgtct tcgtagagga ggacctgcgc 120
cactccttca tggctcttca gcccgacggc aacggcctca tcacgcccgc cgagctcgcg 180
cgcgtgctgc gcggcctctg ggagtccgcc accgtcggcc agtgccgccg gatgatccaa 240
ggcgtggacc gcaacggcga cggcctcgtc tccttcgacg agttcaagct catgatggcc 300

gcgggcggcg gcggcggatt cggcaggatc ggtgcctatg aacaaagatc ctgtgcctgt 360
 cctgctctgg ctctgctttg ctctgcctcc acaaattgga tttctctcat tttatgtatg 420
 tacatatact acact 435

<210> 56510
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-009-Q1-K1-H6
 <400> 56510

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 tgcggcgcgc accggtactc ggaccggcac ggctgcagct acgactacag gggcgccgcc 120
 cgggacgcca tcgcccggga gaaccgggtg gtgcgcgcgg ccaaagtcgt taggttctga 180
 tccacgacgg gaaggaagga cacaacacaa aggctcgcag ggcggagaag gggagaaagg 240
 cgtgcagaca aggtcttcgg tgttattatt attacgctgt tcctttgatt ttaatctcct 300
 ttttttttaa aaaaaaata tttgtcctat ggctatggga atgggaggag a 351

<210> 56511
 <211> 290
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-009-Q1-K1-H8
 <400> 56511

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 gcatgtgcta agtgcacatt tccgggctgg atgcaagcat tggagaaact acagatggac 120
 atagcaactt ccactgattt gcttggtgtt gaaaccagaa gcacatgctt cattttctcc 180
 attggaaaag aacctctgaa aaccgctcct tcagtgggtg ctctgggtga acgaataaac 240
 attttgaagt gatacctcgg ttggcgtcgc acatgatgcc ttcaacacat 290

<210> 56512
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-A10

<400> 56512

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aagggattgt cataggaagg cgcaacgctg ggaggaatac aaccttcaga ttgcgtggat 120
tattggctgg cgtggcactc tagtctgtct ttccacttta ctgacccaac atcaaacaaa 180
tcatggtctt ggacaggaag aaagacagga aagctaacct gtattacctg agggacaaga 240
tgaacacact taaaagatga ggatttcaac ttgtttctat gattactttt gaggcgagcg 300
gatcaccatg gtttgtcaat atgcaatcac attgtttggg gttgcatctt tgaaaaaaat 360
catagcttgg ggttgtcagg tcgcatgctc cgatc 395

<210> 56513

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-A9

<400> 56513

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cagcaaacga ccaccagtaa gacctcatca agcaggctac aaaaaccgag cttgctggaa 120
tggatgttca tcacacaaat ctaacaatca gtctctgtaa tgtacatcga cctacctaca 180
catatggcgg catccatgga ctgtttgtta gcatggcatt tgggcagcct tcctttcatc 240
accttcta at tgctcttttg ctccgtgaac tgctaagagt cgagagcccc cctgcaaata 300
ctgaca 306

<210> 56514

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-B1

<400> 56514

gcactttgtc ggtgctatcc tgtaactaga atcacacaag ataaccatgt ttacatttta 60
cagcaaacga ccaccagtaa gacctcatca agcaggctac aaaaaccgag cttgctggaa 120

tggatgttca tcacacaaat ctaacaatca gtctctgtaa tgtacatcga cctacctaca 180
 catatggcgg catccatgga ctgtttgtta gcatggcatt tgggcagcct tcctttcatc 240
 accttctaata agctcttttg ctctgtaac tgctaagagt cgagagcccc cctgcaaata 300
 ctgacatctc ataggggtgga gacgagggct ggatcga 337

<210> 56515
 <211> 288
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-B11

<400> 56515

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 gactcgtggg cggacgcgtg ggcggacggg tgggcggaca cgtgggcgga cgcgtgggaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 180
 aggaggttaa aaaaaataaa aaatttataa aaaaataaat aaaatataat aaattataat 240
 gtgtgtaatt ttataaaaaa taaaatttta ctttttttta aaaggaaa 288

<210> 56516
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-B3

<400> 56516

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 attttagttc gctgctttag ggcattgtctt aaccaggtc cttatttttc tcagttcttt 120
 ttaagccatg ccaagggtg tattccccgt atacgttaca gatcgcgaaa tccctatcag 180
 ggatggtttg gtgatatcag ggtttatatg ttttctgac cgtgggtgact gtctgtttt 240
 cattcttctt tcttcgtgc cctgtattca ttttgtcaag ctggggcagg catccaagta 300
 tttggcaatg tatatttgag cttgcaggat acaaaggaaa cgaattgttt tgtat 355

<210> 56517

<211> 351
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-B4

 <400> 56517

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 cttatcaaaa tgcagttgat acaaatntgt acgtaccatt ctcccatcga ataaagtctg 120
 acaatatttatt ccttttttcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggggc cttttaaaga atcaaaatta 300
 acttccccgt gcttgcaaag aaaaagtttt tttttggggc ccccaaatt a 351

<210> 56518
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-B5

 <400> 56518

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 ctacgaacta cctgccgccg gaaaacccga gagcgtcga ccatggatcc gcagcagccg 120
 gagcctgtca gttacctctg cggagattgc ggagctgaga acaccctgaa gcccgagat 180
 gtcattccagt gccgtgaatg tggctaccgc atcctctaca agaagcggac ccgccggatt 240
 gtccaatatg aagcgcgctg aagagtgaag acaagggaaa aactgaaga tggttgatct 300
 attactcgcc acattaccta tgtaaacagt cttctggggg aaatgaaaat gtcagactta 360
 acgtttgtat gtcgtgtgcc tcctttgaac ctgagctgta taatttgtaa cgcttggaact 420
 ggggactgat tngagaactg agacanctgc agcatatgtt gatggatcct 470

<210> 56519
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-B6

<400> 56519

gtccggaatt cccgggtcga ccgacgcgtc cgcccacgcg tccgcccacg cgcccgccca 60
ctcgttcgcc cacgcgtccg gcaaattgat taggttgaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa taaaattaaa aaaaattaat aaaattaacc taaattttaa 240
aaatttggtta atttaaaaaa atcttactta acaaaaataa attaactttt attaaattaa 300
tttttttt 308

<210> 56520

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-B7

<400> 56520

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cgatatactt ctcacctcaa tcttgcgaga agcgaggcca gaagaggagg gtgcgaggag 120
atctccagca gcctgagccg gagccggagc cgaggccta gtagatgaag acgttcgac 180
cgtggccggt cttcttccgc cgggagtga agcgcaattg gcccttctc acgggggttcg 240
tcattaccgg cttcatcatc actaagatga cggccaactt caccgaggag gacctcaaga 300
actccaagtt cgtccaggag cacaagaagc gctgaccaac cagttatcta tgacatggac 360
gccggatggc actggcagag ggattgtgta cgtgtgtgtc cgaattgcct gtctggacag 420
ccagctatgt tatgctg 437

<210> 56521

<211> 244

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-B8

<400> 56521

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tccactcttt cgcaagaaga cacactccat gggctgggtcc tctttccccc cactcttaga 120
gcacaatacc cagcaattct accagcaaga atcctcaaaa ctgctcaacc agatccaaat 180
tctgcaaaac actaacatgc actttgtttt tgactctatt tgaaacttgt tactcaaata 240
gctc 244

<210> 56522
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-B9

<400> 56522

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tattcatggg taaaggggtg ccgaggtacg caggcgggtg acagtgggtga tgggcggaac 120
tggaagacg aggttgatcc gttccacata ccgtcggact acacctgggt cgatgccacc 180
gagaagaagc ggaggatgaa ggcaaagaaa gccaagagca ggcggaccac agccccgaaa 240
cagtcctcga agaacacttc ttcggaagga ggccaccgcc ccatgatgga tggcttcgag 300
gagtaaaccg cgttctcaca agcatagtaa gttgtatttg cattcttaaa atgttagttg 360
ttgatggcag ctgcacgcca gaggcagatt gattgatgtt gtgcctggag cccccctcc 420
ctttgcgtgg caatg 435

<210> 56523
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-C10

<400> 56523

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ggcaagtccc tgtaatttgg gggggttttg taggttgac ccttgtgggc attgtttttg 120
aaattttctg ttttgaattg atccattata tatgaag 157

<210> 56524
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-C4

 <400> 56524

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 agtccgtata agcattatcc tattgatggg gtcgaggatc atcttgtcga gaggaaaata 120
 atttctaaca gggtagggac aagaacctag ggatgatcaa taggataatg cttatacgga 180
 ctatggctcc tgtattgata tgcgtttttc aatacggctg cgtctgtcga tccgggcaat 240
 ccggaccgga acctgcaggc gt 262

<210> 56525
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-C6

 <400> 56525

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 cactctcttc tactatgcta tatttgatg gggaaagagg aaaccaacag gaagattcca 120
 gctctcaaat tgatttgctc tgtaagtga gtttgacgga ttcacatcat gtgccccctg 180
 agtggttagt cagttagcat cttagaaatg tatatgatca acaaaaccaa accaatccaa 240
 accaaatcat cttcccaaag agttgaggaa ctgcaaatga tcaactctga gaccttaaag 300
 gccagaatta tcaactctga gactttgaag gcaagaatgg ggcaactggt gggtaccacg 360
 gacatggatg ttaaagtaga acccagttga ctttgcaatg tacacatttc ttgtatcggc 420
 tcttcattta cgtctgtatt aatcgcttta tgattggatg atgatgttat t 471

<210> 56526
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-D11

<400> 56526

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gccgccggtc tcttcagcct cgcagcacac ggggcggcag cccgagtgac cgctgcagcc 120
tanggtttcc ggcggcgatg gcgggtaagg gagggaaggg tctgctggcg gccaaagacga 180
cggcgggccaa gagcaccgac aaggacaagg acaggaagaa ggccccctg tgcgctcct 240
cccgcgccgg cctccagttc ccggtgggtc gcatccaccg ccagctcaag tcgctgcct 300
ccgcgcacgg ccgcgtcggc gccaccgccg ccgtctattc cgcgcctatc ctcgagtacc 360
tcaccgccga ggtcctcgag ctggccggca acgccagcaa ggacctcaag gtcaagcgca 420

<210> 56527

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-D5

<400> 56527

tccgccagac atcgacttcg ctcccatcca cctttaccct gacacctggc tgctgcagca 60
gcgggcccg gtagcagaga agctcaagtt cgtgaagcgg tgggtggcgt cccacatcga 120
ggacggggac aaggagctgg gcaagccggt cctcgccacc gagttcgggc tgctgcaccg 180
cgccaagggc ttccaccact cccaccgcga cgtcttctac aaggccgtct acgacaccgt 240
ctaccggtcg gccgcccgg gcgggcgccg cgccggcgcc ttcgtgtggc agctcgccgt 300
ggaggacatg gaggagtcc acgacgactt ctccgtcgtg cccagcgagc acccctcgct 360
gcacaggctc atcaagtcgc aatcgtgcag gctggccaag cttaggcacg gggtc 415

<210> 56528

<211> 230

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-D6

<400> 56528

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ctctccccgc tcttgaaatc aacaaggaat agaaatccat ggaggctggg cggcatcana 120

tagtggntga cggatatcta ggatggatgg atggatggat ggaacacagc attgcacatg 180
cagctaaagc ttctgctaga tcgatcagag cacggccacc ttttccacag 230

<210> 56529
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-D8

<400> 56529

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tcttccccgg gggctggacg gcggtcctag gcgcgcgcga caacgttggt gtctggaatc 120
tgcgcgccga aaggctggat gactggtaca gagggcagga ggtctatgtg aaggttgccg 180
atccactggg ctacaacatc accgagatgg tcgtcccga caatgccctc tactgtgggtc 240
tactgaagga gaggcaaaag ccacaggttc atgagtcgaa cagcaagtcg tcggcgcaag 300
gcgatgctgg atggagcaac cgactcctcg caaccatgat cctggtcgtc gcagctgtga 360
tcttcagttg atcctctctc ttttttttcc tccaaagttt tttggtagaa ttttgcttag 420
aggaaataga acattgaaac gtctagccta c 451

<210> 56530
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-D9

<400> 56530

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ttagattgtg ctgcaattta ccattcttgt aatttagtat taaaaggcta ttctgtttt 120
ctcctgaaat tcggaatgcc gcaccatgtt tctatccaag taactccttt atgcatgtct 180
tcatttgggt ttggcagact caagtgttac ttgatgaact ttgtgactta aagagaaagg 240
aacaaatgct gcaagatgca aacagggttc tgaaaaagaa gcttggctag tt 292

<210> 56531

<211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-E10

 <400> 56531

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 gctgcctcca ggacggcaag gtctgccaga agcttgcgtc cagaaaggag acggccgccc 120
 agttcgtcaa cagcaacctc tccccgatcc agtctggatg ctgcaagcca ccaacggggtt 180
 gcaacttcac ctaccagagc gaaactgtct gggccaagcc cgctggtttc aacaccacaa 240
 ctgacgaccc tgactgcacc acatggtcga acgaccagac cgtgctctgc tacgactgca 300
 tggcctgcaa ggcaggcgtg ctggccaacc tgaagaacga ctggaagaag atcgccaccg 360
 tcaacatcgt cttctgatc ttctctgctg tcgtctactc cgtcgggtgc tgcgcgttca 420
 ggaacaancc gcaggacaac tcgtacc 447

<210> 56532
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-E11

 <400> 56532

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 ggtgtatgaa actaaatctt gatattcatg ggaagcttcg agttctTTTT ctttttggct 120
 tactgcgcaa gaagggtaac gagaggacgg cggcgatggc gaagaggctg ctcccgtctc 180
 tgaaccgggt gctggtcgag aagctggtgc agccaagaa gaccgccggc ggcacccctc 240
 tcccggaaac a 251

<210> 56533
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-E12

 <400> 56533

gcggacctgg gaaaaaaaaa aaattaaatt aaaaaaaaaa aaaaaaaaaa aaaggggggt 60
actgctattc ggaacagtat aactcaagca tcatgatgat tgttgatggc ttcaagtgtg 120
accaatgttt gcttcgactc tcacttgaag ccatacaaca caacatggat gcactaaaat 180
aatcttcttg tataactca 199

<210> 56534
<211> 394
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-010-Q1-K1-E4
<400> 56534

gaatacccg ggcgaccgac gcgtccgccc acgcgttcgg ttggcttctc ctccctttcc 60
ggttcggggt cgggttcgtg aggttcgccc ggggttcgggt tcgtgggtga gcggatcgag 120
atggcgggcg ccgatgttga gtaccgctgc ttcgtcggcg gcctcgcttg ggccacggac 180
gaccactccc tccacaacgc cttcagcacc tacggcgagg tcctcgagtc caagatcatc 240
ctcgatcggg agacgcagag gtcccgcggc ttcggcttcg tcaccttctc cacggaggag 300
gcgatgcgga acgccatcga gggcatgaac ggcaaggagc tggacggccg caacatcacc 360
gtcaacgagg ccaggtcccg cggcgggcgt ggag 394

<210> 56535
<211> 309
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-E8
<400> 56535

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ggcggccaca tgaggcggca ccgcgaggag aggacgacgg gcgcccgcga tgccctgggtc 120
tggcgcgccg acgacgcgct gcagcggggc cgcgggggcg ccgcccaccc gcccgctcttg 180
ctcgagctct tcgcctagct agctagatga tccgtagcgg cggcattgat tagtatataa 240
tccaccaggg acatgtaaatt cttcttaggc cctgtttggg aacaaagttt ttgaaaacca 300

cagtttttg 309

<210> 56536
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-F11

<400> 56536

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tgcgttcgga taccccaacc tgaagagcgt gaggggggtg atctacaaga gaggttacgg 120
gaagctgaac aagcagagga ttccacttag caacaacagt gtcacgagg agggcctcgg 180
gaagcacaat atcatctgca ttgaggacct tgtccacgag atcatgactg tgggcccgca 240
cttcaaggag gctaacaact tcctctggcc gttcaagctg aaggcacccc tcgtcgggtct 300
caagaagaag aggaaccact acttataggg cggtgacgcc tgaaaccgtg agaactacat 360
caacgagctc atcaagagga tgaact 386

<210> 56537
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-F12

<400> 56537

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gttttggttc agatacgatg atgtttcggt tgtagggtcg acgttggttg ctgaactcgt 120
aacattttat tgtcgttatt atgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaact aaaaaaaaaa aaaaaaaaac aaaaaactaa 240
atcaacaaaa aaaaaatata attaaaaaca aataaattaa atagggggga ggctttttta 300
gataccaaat ttaaaaaaaa cgcgtacgca a 331

<210> 56538
<211> 165
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-F4

<400> 56538

gaataccccg ctcgaccgac gcgtccgcac tggcgctcgt ccagatgtgt gtgagttgag 60
atagtgggtt ggattggatt tggctggtag gtagcgtgtg tatggcatgt tgctgaatca 120
aatgatgtga tcatcgcaag gtcacaaaca gcctctttgt catgt 165

<210> 56539

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-F6

<400> 56539

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ggcacaatgt agcctgcact gctgagcgtg atgggtacct gtactcactg aatgcttcca 120
ctcttagcaa acagtgggaa tctatggggc cctttctaca aaagaccgtg gcataccttc 180
gccttctccc cggtacagaa aactatgttc ctccctacaa ggatccttgg agattttggt 240
gaatggagat tcttcttgta gtcatcattt ttatcccttc agatgacttt atagcttcag 300
gttttagacc atatttttca cgtcagatgt ttagtgagtg tctgtccttt cagcttgaca 360
gataaaattc agagaccag tttgggtatca gtttcgcca tcgtgttcgt tctgattaat 420
aacagtcc 428

<210> 56540

<211> 326

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-F8

<400> 56540

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ttttattcat tagtttgtcc cttgatatcc gatggtttta agaaaatggt gtgttaatct 120
gcttttccac aggcttaatg ctatctggac gaggtccttt tatgaatctt gatttggatg 180

ctcagctctt tcatacgtct actcctaatac aaaatcccat cacatttcat gttattggta 240
gacctcttga aaactctggt gtttaatcag tatgtcactg cggataacgc tgtcaaaagt 300
aaaaaataca caatgtttta agaaat 326

<210> 56541
<211> 316
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-F9
<400> 56541

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ctcgttcacc aagccgaggg aaggtgagga gcgatggcgc gctgcgtggt gtcggcgaaan 120
ggctacacca tcgcgggcaa gaagaagggg tcggtttcct tcacgatcga ctgcaccaag 180
ccagtggagg acaagatcat ggaggtcgcc tcgctcgaga agttcctgca ggagcgcatac 240
aaggtcgccg gcggcaaggc tggcaacctc ggcgactccg tcaccatctc tcgcgagaag 300
accaaggcca ccgtca 316

<210> 56542
<211> 308
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-010-Q1-K1-G3
<400> 56542

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cgattcctat tcgtcgtctc ttcagggctg gtgcgcactg ctgcgccggt ctgttaaccg 120
aaacaagaac tctgtgtatt cctgtaccga gctgtgcatg tttttttttt ctttccatcg 180
tggaagaattt aagttattat ccgtttgctg caaggtttgc cgtctcattt tatgcgttgg 240
gatgttggca agaaagggca gatgtcatgt gagaatttaa gttaagtga atcgattcag 300
ggttttct 308

<210> 56543

<211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-G5

 <400> 56543

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 ccggcgggtcg gccagccgcc ggcaagcgcc tcagcccca cagtcgcacc gccgccgccg 120
 aggcaaactc gaagccaccc ccgccgccgc agccacagcc gcgccgagct tgagccgctcg 180
 ttgctccgct gaatcgcccc catcgtctct cctgaagaga gaggacattt attgagacag 240
 catgcctaag ataaagacaa gtcgtgtcaa gtatcctgaa ggatgggagc ttattgaacc 300
 aaccatccgt gaggttgatg ccaaatgag agaagctgaa aatgatccac atgatggaaa 360
 gagaaagtgt gaagctctct ggcctatctt tcgtatttct catcaaagga gccgctacat 420
 atatgatctt tact 434

<210> 56544
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-G9

 <400> 56544

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 gagagctttg aggggagggg aggggagctg gctagctact agaggagggc ttcctccggc 120
 ncacaacatg ggggaggtga agcacctgtg cctggccaag ttcaaggagg gcgtcgtggt 180
 ggacgacgtg ctcaagggca tgaccgacct cgccgccggg atggacacgg tcaagtcttt 240
 cgagtggggc caggacgtgc tgaaccagga gatgctgacg caaggcttca cgcacgtctt 300
 ctcgctcacc ttcgctacg ccgccgacct cgccgcctac atggcccacg acagccacac 360

<210> 56545
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-H1

<400> 56545

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ggatcaaact acctgatttg tttccaacaa tgggtgtctgg gcccaacaat atttaccttt 120

ttaaatact accaatccac ctacttaggc cttttctgta acatcataca cgacccttac 180

gatttcaaaa catatcacca tttatcaaca aaaacaactt attatatatt gtgggccatc 240

tctctaaagg atccaatctt acgtaccctt tcattcaact ttatatcttt tctattgttt 300

cacctaaatt caatt 315

<210> 56546

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-H3

<400> 56546

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ggcagctacc gtgcaaactg tcagagtcgg ttggtgaatc aggggtggaga ctgaagaaca 120

gcagggcatc accctttacc ggtttaactg catatccgtt tcttgcacaa tcagaccaag 180

tgtcgtcctt gggttgcaat aacttcccct ctgcattggg gaagatgggtc tctccaccct 240

tctcgacatt tgataggtac atcagcacag tggcaatgcg atggccgccc agggcctgat 300

tatttttgtc atggaagtag tcgtagtggg gttcatattt ctcaccattc tggtagtgta 360

atatctgaat ggcttcacca ttctctgggtg gaagaaatgt ccaagcaa atcctctcct 420

ctatttctcg tactacttca tctgcttct tctcgcta 458

<210> 56547

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-H6

<400> 56547

ccgggtcgac cgcacgcgtc cgcctgtct cagctcaacc gtatgtacca ttgcccgttg 60

gtgtcgtttt agtgcctaac aggggttgatg aattttgtga tgagttagct actgtcctgc 120
 cgatgactat gtttgcttcc aaaggacacg gcttatcgtc gctgatatac taggtattat 180
 gttataaatc acatggactg cct 203

<210> 56548

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-A4

<400> 56548

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat taaaaaaaaat taaaaaaaaa aaaaaaacg 60
 agcagaaata gacataaaat acatacatat acatgcatac tacagaaata tataatatat 120
 agagctacct aaattaattc aactggccga cttttaaaaa caatggcgac tgccaaatca 180
 a 181

<210> 56549

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-B4

<400> 56549

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 cacaggtttt cccctcatct cccgagctaa gaccgctcat ccctggacac aacgcaacac 120
 agtgtcgagg gggatcgtga ggcgagagcc ggccggagac tcagtccctcg accggtcgtg 180
 gtggtgttcg catcggcaga tcagaaggaa aaccaaaga atataagacc gagagctctt 240
 ggagccgtcg tcgatctagt cggaggcctt ctcgacgatg ctctcgagcc gcggccttca 300
 cacgccgacg cgggcgccgc tgcgccggtc tcagtggccg ccgtctgacg cggccttttc 360
 ggagagcagc tccctcaagt agttgt 386

<210> 56550

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-C7

<400> 56550

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gatatgtact ccaatcttta gatttttcgtt gttaaaacac tctatttggt taatgatggt 120
attgtcaatt aaactaggat cagtgggtctt ctctataaag gtatatgttg ataaaaaaaa 180
taaaacaaaa gataaaacaa aaaattaaaa aaggaaggcc ggtctaaata gtccatccta 240
gcttaccttc gcgtgcatgt taaggcctag ctcttctgta gagttaagtt aatttaattg 300
actggccttt tatat 315

<210> 56551

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-D3

<400> 56551

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aggttctgac cattgctgtc aaccgggggg actcgtcaac agcgaaggga gtttagggac 120
ctcgtatgtc taatggttga ccccttgaga ccaggagact tcaaccaagc gctaattgag 180
ttaggagcaa catatatgta tcaagacaaa acctggttgt tctcaatgcc cactctctag 240
ccactgtcaa gcgctttcgc tttcccggtg aaaa 274

<210> 56552

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-D5

<400> 56552

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cgaccaaagc ggcgcgcgag tcggccccctg cgaccggcgg cgtgaagaag ccgcaccgat 120
tccgaccggg caccagggcg ctgcgcgaga tccgcaagta ccagaagagc acggagcttc 180
tcatccgcaa gctggccttg cagcgcctgg tccgcgagat cgcgcatgac ttcaagaccg 240

acctccgctt gcagtcctac gccgtcgacg cgctgcacga ggcctaccag gcctacct 298

<210> 56553

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-G2

<400> 56553

cccacgcgtc cgccacgcg tccgccact cgtccgcgga cgcgtgggat tttttcttag 60

atgttctctc aagttaaggc ttaagaacca gaagtgtgag gattgtttcg tattagatat 120

tctgccttgc cttgtactac ttccttctcc gagtattgta atgactatac aatctgttgg 180

cttgtattgt accgctgcta ttgaccacgc cagtatttta ctgcacgaga aagtgggtgtg 240

cacgaactat tctta 255

<210> 56554

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-G6

<400> 56554

gttgtaatgt aaggagatg tttaaattct tgggggatag ttgtatgatg gtgccagcga 60

tgatgcagtg ttttctgaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaataat aaaaaaaaaa aaaacaagaa aaaaaaaaaa aggactaccg ttctaaagga 180

tccaagctta catacgcagt catgcaacaa ctaagctttt ctataatgtc acctaaattg 240

aattaattgg ctcgcattta acaacttagg aactgtaaaa 280

<210> 56555

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-H3

<400> 56555

taccggttcg taaatccagg ctcgaccac gcgtacgcc accgatccat ccacattttc 60

ctactattga agctgcggtt gcagtggagc gtccgggggt caaggaagcg gtggatgtgg 120
ctattgatct gaatccacct aaaattatat aacttgcaac gacaatggac attactcaac 180
tcttacacac agctatgaac atgttatata aatatgacac cacacatgaa tatgtctagc 240
taagaggcat agctgtctga tgcatatcat gtgtaacacc tcaaggcttg tcatgtagtt 300
catgaaactg gcatgatggt atacattact ctcttcaa 338

<210> 56556

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-H5

<400> 56556

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gggtcaagggtg gtgggtggctc tggctatggg tctggatccg gtcgccgtta tggaggtggc 120
aacgacaacg gacattacta ggctcttttt cagagctagg aacatgttat acaaatatgt 180
caccagacat gagtaggtct tgctgcatgg gatgctagtt gtgtccatcg tgtgtgtaac 240
accgcaaggc ttgtaatttg tctgtgaaac tgcttgctgc ttacattac tggcaacaac 300
taagtata 309

<210> 56557

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-H8

<400> 56557

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actgggacca ttactgacga ggctgttgag actgtaggac ccgtatgttc gcattaagtg 120
cttcgacaca cacaggatca tatctgtcga ggaccatgcc tatatccaga tcaacattga 180
cccattggat acgaatggcc tgtatgaagg ttgggtcaca acatctgctt tctctagatg 240
ttaaactgct caaggcgaat catacagctg ctctgacaga ttgtcacgga ataataatgc 300
tgatatcatg cattataaat tacatctagt gtaccaagag atgcacactg acttaactat 360

attttgaatt catgctacta tatgccatgt tgggaattc 399

<210> 56558
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-A1

<400> 56558

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gccaaaatgt atttcttgtt tggatatag catctctaca acactttggt gaacttagtt 120
actgcaaatt aggtaattac agttgcacct tttgtatatt atagcaaacc cagacttcta 180
tttgattcta tgactgcccc tctttagta aatgcaaggc ttcactggta ctctgttta 240
aagattggtc aaatagaaga gacgacggtg attgtctgat tgagataaaa aaaaaaaaaat 300
aa 302

<210> 56559
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-A4

<400> 56559

aataaaaata aacataaaat aaaaaaaagt taaaataaac aaaaaaaca caaaaataaa 60
agggaaaaaa aaaaggggcg gccgttctac aggatccaat cttacgtccg cttccttgcc 120
acatcttagc tttactatcg tttcacctaa tttcatttca ttgccgtct tttacaacg 180
tcttaactgg aaaaaccctg cgttaccca actaaatccc cttgcatcaa atcccccttt 240
cgccatttga cttaatagca aaaag 265

<210> 56560
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-A9

<400> 56560

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gctgaaattg ctcaaacgt gtccactaag aagcgcacgg agatcgtgga gcgtgctgcg 120
cagttcgaca ttgcggtcac gaacaagctt gctaggctcc gcagccagta ggacgagtag 180
tctgatttct tgacttaacg acgaactgga tgctgccatt cttttctgtg ggaaactaca 240
ttgctngtgt cttgttaagt actgaaaacc agagtcactc ctaacctttt tgcaatcagt 300
agctactaaa atgtggcaaa naaaaa 326

<210> 56561
<211> 393
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-012-Q1-K1-B12
<400> 56561

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aagagtagat ctatcgagtt ctaagggtggc gtgatgtctg ctctgtgtct tgagaagata 120
tcggtaaaat atcatggctc ataggatata tagtgtatag tcttcttgca gcacagaaga 180
taatgttttg ctgcttcagc aaacatctga agtatgagtc ttattattaa gaagtctttc 240
ctttaactta tggcgagttt agcatcggtc agttatcaaa cagttaaagc gtcgtctgaa 300
atcttgtctg aatatcaaaa aattaaccaa actcaatgct agtgttcgag attgaagtgc 360
tcaatgcccc actaatcgc atctgtcaaa taa 393

<210> 56562
<211> 177
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-012-Q1-K1-B2
<400> 56562

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gacaaagccg caccctcaat gtgcttgag cagaaaacgg tgaaaatggc aatgtgttta 120
aggtctgtga tgactcagtt aatgttgtca accttgacac atgggaatgc acctgcc 177

<210> 56563
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-B3

 <400> 56563

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 ttgtcaattg aatacatgac ttgcgatgtg ttaggataact ggtagtaaata aatagcgtgt 120
 atatgttact actcttttac tctttttgtc attattatat tatcttttgt tcatcctgtt 180
 tgatatcagt taaaggggat tcttttttta ctatatgctt tttttattat aatttttata 240
 tttattttta ttttatttta ttatttcttt tttttttttc ttttattttt tctataattt 300
 tctttatata attttttatt tattttttata tttt 334

<210> 56564
 <211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-B4

 <400> 56564

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 gtgtagtgga cctgtgacca tgggtggattc tttcatctgt tcaatgaaaa aaaaaacaaa 120
 tatttttcacg caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaata 178

<210> 56565
 <211> 234
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-B5

 <400> 56565

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 ccctttctgt tacgtgtttt attttattgt gtttctgtgg tcgtatatct gttttgtgac 120
 gtgtcccttg cttctcccat gtgaattcca caagaactat gagaaatttc aggttggtga 180
 tcactaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aata 234

<210> 56566
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-B9

<400> 56566

ttccggtgaa taaatggaga agaacaaagt taaaggagaa catcagggtg cttgcattag 60
gccatcattg tacctctttc catctggctc tcgtgttgcc ttggttgaat ttgtgcttaa 120
tgtagccatg aatttggtgg cccacatatg gacgcatgtg ttgttgttgg ccctctccct 180
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<210> 56567
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C2

<400> 56567

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acgaggagga ggaataactga tctgcttgca tgaatctgtt tggctgtcga gccaggttgt 180
ggtgttgaaa aacctttgtt tgtgtcctgg gtaatgtttg ggtgtttcct tccatcatca 240
cttgctgaac tgctctagta tttgcatttg taattgaagt ctgtcgcttt aagcactctt 300
ggttct 306

<210> 56568
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C6

<400> 56568

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cgagaacgtt tgccgatcga tcccacgcaa aggggcaggg cagcagcgga acctgaatct 120

gcaacaacac taaccaggg aagaagctgg ctctgaagtg tgtgctgtg cgtccatcta 180
gcacctgtgg tgaaccatg gtttctcctt tacccgtcgg ctaggcatct aacttatgtg 240
tgatttgcgt gttcgttgg aaatgaggcc tactaaaccg attcggctgt gtttta 296

<210> 56569
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C7

<400> 56569

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cagcgttcct gcactggcaa tgtaacagaa taaactggca ctggcaatgt acagaataaa 120
ctggcaacgt agaccctgtc aacgaaattt ttagccacta gggtagcagc ctatgccctc 180
tgaacaaaaa ggtaaattga tttgcaattg ccaaactagc agctgcccaa tggccccgat 240
aaatgtttat caacatgaga cgacaaagtt tcggcactgg caatgtttta caggaaaact 300
aggtcaaaat aacccactt caaaaaagtt gcagttcgcg acttctgccc cagcccgaaa 360
tccgtaaaag agcactgctc atcttgtacc agtgaaaaaa ataagcttca gattga 416

<210> 56570
<211> 475
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-D1

<400> 56570

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aagttcacac tgagtagcac aatgggaccc ggacttntcg ttaccatacc atcactatct 180
gtggccgccg atcactataa caaggttcaa gtcagctaag tcaatacagt agaacatcga 240
atgtagcttt ctttctccaa tagccgcggc ctgcagatgg cggcttggtt ggcagtggag 300
cttaaccatt cagcaaggtt gagatttggg tggcttgctg ttttgttatt ggggataata 360

cctttttgtgg acaaggatca ttcaacaaac atcataacct ataactttat tttatccttg 420
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<210> 56571
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-012-Q1-K1-D2

<400> 56571

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 tcgcacgccg agaggaccaa tatgccgttg ccggacatcc ggcgagtggt ctccctgccg 180
 cgcggaaga accctcttgt gtgaatctag ctcgtttcgc caaccaggca ttctttcatt 240
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 cacgtcatcc ggatgcataa cacaaagtct gtcgagttgc ttccaccagg ctcccatgaa 360
 aacgcaaagt tcacgctctt atgcgcgatg taaaaaaaaa aaatnaaaat aaaataaatt 420
 ataataaaaa aaaaagggcg g 441

<210> 56572
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-D3

<400> 56572

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 tgccccctgt ggtgctacgc agctgcagca acataagatg gtcaggctaa aatcatgttg 180
 tgggatctga ttctaagat gcttatttag tactattaca aatatctatc gttgcttata 240
 taaatttggt 250

<210> 56573
 <211> 411

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-D5

 <400> 56573

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 cgtagattgc tacggagttg acaacgcgct ggttcgagtt gcagatccga cgttcttagg 120
 gtacttcatt gacaagggcg catcttctgc cgccaaagtg gttaggaagg cttatccgca 180
 agagaatggt ggggtgttcg ttcaacgagg ccgtgggtga ccgctctcgg tggttgagta 240
 cagcgaaatg gatgcggcta tggctaccga aatgaatcag tcgacagggc gacttcgtta 300
 ctgttggagc aacatctgcc tgcacatggt cactctggac ttcttgaacc aagtggcaaa 360
 cagccttgag aaggacagtg tataccatct agctgagaag aagatccctt c 411

<210> 56574
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-D7

 <400> 56574

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 ctttatctct tcacggtag atgttgctga aatagtgtaa atgttactgg tgctctgttg 120
 tgcttctcta aattcaataa tatttgaatt gggggggggg ggggcacgct tgagtacgcc 180
 aagcttatag tcttgtctgc ttgacttgaa cgagtgtac tgatgctagc atatcaggct 240
 gatctgacgc atacaaaagc tatccgacta tgaatcccaa attgctcatc gcatctcgcc 300
 aacttatgaa attttacacc acagctatgt gcaaggattt tgacatgtag tgctgatgta 360
 tgatcctccg tcatttgcag 380

<210> 56575
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-D8

 <400> 56575

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 tttttttttt ttgaaaaaaa aaaaaatgct ttttatttta aataaaattt agtttttttac 180
 caaaaaacca tttttattaa gcataaaatt tattttattt aaaagctata ctctatttat 240
 tccatattta caagccaaac ctctatgttt ctaacttttg catttaggaa aacatattaa 300
 aaattt 306

<210> 56576
 <211> 92
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-012-Q1-K1-F11
 <400> 56576

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aggggcgaac gcaatcgggg gt 92

<210> 56577
 <211> 111
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-012-Q1-K1-F3
 <400> 56577

ctcggaattc ccgggtcgac cgacgcgtcc gccacgcgt ccgaaaaaaaa aaaaaaaaaa 60
 ataataaaaa aaaaaaaaaa aaaaaaaaaa aaggggaaaa aaaaaagaga g 111

<210> 56578
 <211> 489
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-012-Q1-K1-F7
 <400> 56578

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ccgttccagc gcctggtgcg ggagatcgcg caggacttca agaccgacct acgcttccag 180
agctccgctg tctccgcgct gcaggaggcg gctgaggcct accttgtcgg tctcttcgag 240
gacaccaacc tctgcgccat ccacgccaag cgcgtcacca tcatgcccac ggacatccag 300
cttgcccggc gcatccgtgg ggagaggggc taagcatcgt atattctgtc atcagtgtcc 360
gatcagaaga tgtagagatg tgctgggttc tgtagtttgg gttactgtcg aatcatcgag 420
tagttgggtg ttcactgctg taacttaata tcatggatgc atatgaaatg gcaatgaact 480
atgttatca 489

<210> 56579

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-G2

<400> 56579

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ccgccgggggt catctcggag cagcggcagc agcacgtgct ccgacagcgg ctgcggctcc 120
ggctcccccg tcttgggaaa gcactcgagg gagtcgaggc cgcagggcga cgagaaggcg 180
gaacgacggt gcctgtggat cccaagacg ctccggatcg acgaccctgt cgaggccgcc 240
aagagctcga tctggacgac gctcgggatc gagcctggcg accggggcat gttcaggccg 300
ttccagtcga agcatggacg gcagcaggag ctgcaagcgt ccggcgccgc tcgcgccctg 360
caggccaacc cggcggctct gtcgcgctcg cagtcttttc aggagacgac gtgattacta 420
cactac 426

<210> 56580

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-G6

<400> 56580

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ggtgagaaaag aggtggccct ctgctgtaga tgcaacagag gagacagaag aaagcaccga 120

aggccaagca cagcctaata atgttgctgc cccagaatct gagtataaag gagacggaaa 180
gccatgtgaa tccgaagcag cttcccttgc atttgttgat gaagcagctc cccatgtaat 240
tattgatgaa gagaagaaag aggaaaatac tgagaatgag aacagtcagg cagccgaatc 300
tgccgtgcct ttcctggcat ctttagaggg agagaagaaa gagaatgggtg gtgcccctga 360
acaacca 367

<210> 56581

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-H11

<400> 56581

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tgggtattgc ggtgtggta gaggaatcca tagcggttcg tctgccttga atctgctgtc 120
agttatagat tcagattcag aaagctgaaa gttagtttgg tagtcttgag gggatgaatt 180
atgtcaagct agtttactgg tgtaaatgtt gtaatttaca ctagcatgtt tgtaattgac 240
ataactttat ctaacttgaa tatgcccttg ggtaccttgg atttgtgact atattattat 300
tgggtcttga atccttcatt aatgtaccgg t 331

<210> 56582

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-H4

<400> 56582

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aagacggcat gacggacggt tcattccatt ctccagagtg gcatgcggcg cgcttgccca 120
gccttaacaa gacgcacacc ctacactggg aggagttaa gaagaagcag aaggaagagg 180
aactgaaaag gggtgagctg gaggtgaca aagacaaaat gatgagagag tatagagctc 240
aactggatgc tgaaagagct caaaagctag caaacggaag aaatcactca aggtcaaact 300
caaatcatc atcttccaag aaagagagga aggataagga cgcaaag 347

<210> 56583
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-H8

<400> 56583

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 gagctgatag tgtccctgaa attgctgtga gaccacctat gaaaaggatg ctttgagtgc 120
 acatgtatag agttcttccc tgaagcgatt ctttcacttt cttttctttt gttttctttt 180
 ttggttcctc ctcaccatct ccaccccacc cgtccacttc tgcgttcctt cgatggatct 240
 ggcgagcccg cggaataaat gagagttttg gatatatagc tagggcttaa cctcgtcgac 300
 ttgtctgtaa aatcgaatga gacatatata taaacctatg ttgttttc 348

<210> 56584
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-A4

<400> 56584

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 gactgggtaa cacttaaatg tgcaagccaa gctgttattg ctgacaacga gactggaaaa 120
 aacgggtaca ctgttcatt agaggctctg ccagcatgac aattcgaacc attgtacaga 180
 actccactaa gcattcagga tggagaattg ccagtcctgc ccatgtccgt gtatgggtgct 240
 gttgccatgg cacatagtgt ggattcagat gaatacaact caccaactca gttctttttc 300
 tatctttatg acaagagaaa ctctggctta agaggaatat cgttcgacga ggggcaattt 360
 tcagatttcg ggtataccac ggattggaga gatgttctgt cacagattaa gtccctgagat 420
 aaaattcgat ctgccaaact tgtaca 446

<210> 56585
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-B1

<400> 56585

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggtc 180
cccttttaaa ggaccaatt taacctcccc ttttttcaaa ataaaaacct tttttttaat 240
tccccctaaa ttaatttaaa ggcccttctt ttaaaaaccc tttatttgaa aaaaccttta 300
gtttcccaaa ctaaacacct ttttaaaaat tccccttttt ccaaattgtc ctaataccaa 360
aaacccccca aacatattcc tttccaaa 388

<210> 56586

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-B2

<400> 56586

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tggtgagtag cgctgcttcg tcggcggcct cgcctgggcc acggacgacc actcccttca 180
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gcagaggtcc cgcggcttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc 300
catcgaaggc atgaacggca aggagctgga cgcccgcaac atcacctgca acgaggccca 360
atcccgcggc ggccgtggaa gcggcgccgg cagcgggt 398

<210> 56587

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-B4

<400> 56587

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aagtatcatg tgttctaact ccagactggg tgaacgattc tgttgaggag tccactgcag 120
agaaggatgt ggcttctgat ggggatgagg ctgagtcaac agggattgtt attagaagcc 180
atcacccctgc tccaagatca agctcagaga gttcattcac tcaacaggga actgctatgc 240
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caagctgcat tattgacgaa ccaggaagtc agcacaagc agaaaaagca taaattgaag 360
aagatgccag ttcaaacctc gctggaagtg ctgatgatct a 401

<210> 56588

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-C7

<400> 56588

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tgttctgcta ctgcggaacc tacctcatgc atgctctgat agtatttggg atttttgttg 120
catcggtaaa ttatgctacc catgttacia gtccttgaa ctctgttata agtgtaccat 180
ggagaaatcg aagccaacta tgtttgtggg taccctgtgt tatctcaatg aaaatgatgg 240
tttagttgac tattaataaa cgtcaacgta ctacaatgcg gttgaactct tattaatgc 300
aatgggtggg actatctata ggatcctagt ttacttacac ctgcatccga cggaatgtct 360
gttcaatagt gtcccttaaa ttaa 384

<210> 56589

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-D2

<400> 56589

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agtttgagag catggatggg cctaaatcgt tccccgatg gaacatcgca gttcgggggc 120
tttgcaaggc ctaccttctg gcctgctgca ccttctcagt ttgggagcat ggctcaacct 180
aattatgtgc attcttctca atcctctcaa ttcacaagct tgggttaacc gaattctgta 240

cctcctgctg agtcctcgca gtttgggaagc aaagcccaat ctagttctgc accccttgct 300
 aaaacctctc agttcaaggg catggctgga ccaaattctg tatctcctgc tgagccctct 360
 cagtttggga gcatgattag acctaatttg gtacctcccg catcttctca gtttttgggg 420
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 ccaaac 486

<210> 56590
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-013-Q1-K1-D3

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 gctgtaaag cccgtttgca tttaatcagt gtccaattct cacaattac tgcgttcnnc 360
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 gc 422

<210> 56591
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-D4

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aatttttctca aggtgaactt tgtaatcggg taggatgtgt tgtggaccat tatcttatcc 240
tacaatatta tcgtatctgt ttaagaaaaa aaaaaatatt ttattattat tatatataaa 300
tttattttatt tagtgtaata aaaat 325

<210> 56592

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-D8

<400> 56592

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gtattttatg gtcggacctt atggagtgtt tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaaaaaaaa aataaaaaat aataacaaat 240
aatataaaga aaaataaatt caattcactg tcacgtaga 279

<210> 56593

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-E3

<400> 56593

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aaaaaaaacg catgcatctt acaagatacc tcttttataa actcatctat aataatttaa 180
tacccttgaa tattccaact ctacttactt taaaaaccct ggcttttcca aactttatac 240
ctttaaaacc catgcctctt tcgactgatt ccgcattaac aaaaaggccc tttcctaattg 300
tcatatccaa ccatagtgc ccttatatgg cgaattttac aacccttttt caagctcatt 360
aaccattgtg ctctcccta ttactccaa ttttaaccgt acaatttact ggttcctaac 420
accagtcct ttccattttt taccttcc 448

<210> 56594

<211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-013-Q1-K1-F2

 <400> 56594

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 tcaaaggtgt ccgacgccga ttgtcaacat ctgatgcaag aaggccgaca tcgacatgaa 240
 caatatggtc cgcaagctga cgcctgatga gctggagcgc ctgatga 287

<210> 56595
 <211> 486
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-013-Q1-K1-G2

 <400> 56595

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 tctgagcaat ttcccgatcat gtgaggccaa gcgtgttctt gagaggctgt ataacaagcg 180
 agagagggaa agagctgcaa atagaggctg aggttgatac ttccacaaac ctggtgctct 240
 gtaattccac cgcaggtcta tccagagccc gtatacgagc tttggttata acagatagct 300
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 tgtctcatca gcatgatcat tatgtacaca acctcgagaa attctttagc atctcaatta 420
 gttgtgattc agattaattg tgtgacagtc tggttttgta tgcatacagac gtttatgttt 480
 tgtgtt 486

<210> 56596
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-013-Q1-K1-G8

<400> 56596

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accttgactc attggaacat agccatatat ctggcagcta gcatatatct gatcaaagca 180

aagccatata tctggcagtt ctgggggtgat ccgtccgtgg aaaaggcttg gccactgacc 240

tgcgcgagga caaagcagta gaaacatatc agccaatcaa agcaaagcca tatgaattca 300

tgttaaacad gtccatacat atagcagtga aaagtatcaa atcactgatt tcttctcttg 360

gcctttgtaa ctgtacatac tgctttcgag gcctttgtaa ttgttcatac ttcttacggg 420

cattcattat gcaagcatgc t 441

<210> 56597

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-H8

<400> 56597

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gaggtacctt tcatctgtcc tctatcaggc ataagagaag aatgcgagaa catgcagcct 120

gagccatgag ggagccgtca cttaagcgg gcacagtaaa tgtttctgaa ataagacgcg 180

tagctagcat cagtttgctc cacttggtat catttgacca tgctcactct atcctttcgc 240

tagcctctat gaccggacct aaactggtgt gtgagaaaca tccacgactc tcctcccaac 300

tgttttctta aagcgaaatg ataacacttc ttaataattg tctatacgat tgaagctgat 360

ttgattggta a 371

<210> 56598

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B1

<400> 56598

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gatgccccgt ctttagcagg cgcagatggt ggaatagcca tgcgaactca ttcaaaagag 120
aacgctgcct ctgatgcagc ttcagttggt ctactaggca acagactttc tcaggtggta 180
gatgcgctat ccctgtcgaa ggcaacgatg gcaaaagtcc accaaaattt ggcctgggca 240
gtggcatata acatagtagc cattccaatt gccgctggag tgctgctgtc acaatatgat 300
ttcgccatga caccatctct ctcatggggg ttgatggccc ttagctcaat ctttggtgtc 360
agcaattctt tgcttctgca gctgcatggg tcgcttcaga acacaag 407

<210> 56599

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B11

<400> 56599

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caagccgctg aagctcggtg agcgtgtcca ctctacatgt ctcctgccg tctcagcctc 120
ttgtgtttta caccctacaa ctccctagtag cgccgaataa gatttgctat ctgcaatgtg 180
ctcatgccac cgctgtgtgt gccagttaac agtttgcacg aaaccctaga tattttgtta 240
tacgaatgaa tgacatgtgg tgtttgataa atgatgaaaa aaaaaaaaaa aacaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa ataata 375

<210> 56600

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B3

<400> 56600

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tacaagtaaa cagtctaggg gtgattatgg ccacgggcgc aacggcaatg gcatgtacta 120
cgggacgcca ttctacggtg gatatgggta cgctcaccg gtcgccacc caaacatgta 180
tgccgcggcc tacggagcct acccgacta tggaaccag cagctagtga gctgatgtgg 240

caatgctctc tgttcagttt cctacctcgg atcggaggga ggaaaccaag tctttggtcc 300
 tgtaagatag tagctacaat gagatattat aggcggccat acaaattggc tagagacact 360
 agaagggttt ttgattatta tgctactctg tacacttgtg ctgttt 406

<210> 56601

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B7

<400> 56601

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 tcaactacgcc accaacctca tagtgtccag gtcgaaagct cggatggttt tgttactcac 120
 acttgtacta attttcatgc atctatggat cgacaatact catactgtca accaactgaa 180
 cccacttccc tatcgtgctc aactagctac tttataccca tccttttctt 230

<210> 56602

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C5

<400> 56602

aaaaaaaaa aaaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaagaaaaa 60
 gtgaaaaaaaa 70

<210> 56603

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C9

<400> 56603

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 ggaggggggca ccgggacgtg tgtcgcttgg acatgtgcta gttgctacaa atttgtcgaa 120
 ctaattcaca tcagcatttt aaatcaatac atatcctctg tctctacctc atcttcagac 180

tcacccctcat tcctctgaac gccgactgtc tgaccctaca actctggaac atgctccaac 240
aaagctctac gcctactact cgagctggaa ctagtgcctt taaacactaa gtcctccttt 300
ctcataacat aggcgtcttc ttgcgaagtc ccttagtgaa cttctagatt ttcagagaga 360
cacttagaat tttgtggact aatatgactg ttccaccacc atgagcggga ttttcctgag 420
tgcacctttc tcttcatctt caccaaaaata taagaaaatc ttctctgata 470

<210> 56604

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D1

<400> 56604

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aattaaaaaa aaaaaaaaaa aaaaaaagaa aaggaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa taaaaaaata aaaaaggggc ggccctttta agggacccaa 180
gtttccaaac ccttccttgc aaattattat tttttttttg gtgtccccta aattaaatta 240
attggccgtc tttttacaac ttattacctg gaaaaaccct gtctttccca attttaatat 300
ccttggagaa aattcccttt ttgcaagttg gcttaattcc aaaaaggccc t 351

<210> 56605

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D5

<400> 56605

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ccgtgatcg cacgtctaca tggacgcggg ctattctgac gagaaggcgc tacgtgactt 120
cgcaaggaca gcgtccgcct cgacaagcgc tgccagaagt cagaccgcac ggagttgacc 180
aaggttacgg ctcgtacgga gatcgggttc gtctacatgg gcttcatcgg attcttcggg 240
aagctcatct tgatttccat ctacaacatt aatagtcagt tcctgctagg ctcagggcga 300
gacttgcatg ggcgtagtac gatactatgg agagcaacgg atatccagga acttgccctt 360

tggaat 366

<210> 56606
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D9

<400> 56606

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tcatggacac gggcatgagg catcatggtg gtcattctca cattgagttc cttactgggt 120
gcggacgatg cttggcatgt tccaacagct aaagtttgag ttaataaatt ctatcacccct 180
gcatgggact catgttgttt gcaactgggt tagcacgaac tggctctgtt actattgtgc 240
taatgtatgt gtttcgaagt ttcagttaat atgctgtgga aaagaatctg gtgcacgttg 300
atgtttcttt 309

<210> 56607
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E1

<400> 56607

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tgatgctgca atcaagcatt cctcaattcc accatgaaaa taaacaccat ctactccctc 120
gtcaacagca ccgccgcaat gcagtaaaag caccaagcca tcttggttgc tccttaacgcg 180
gaggtagcag gcagcagcgg gatcaagcgt tacagacata gtttaacctc acgagcatcg 240
tctcatcatc gtcacatcg tcatacaaac ataagtagac tccgaaccaa aacgctgtaa 300
aacgatggag ctaagctagt gcaagggatg gag 333

<210> 56608
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F5

<400> 56608

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ctgaaggaag aaaagccagg tctaacgctg cggcaataca aagacatgat atggaaactg 120

tggaagaagt cctcagacaa ccctcttaac caggctgctg actgaatttt gcaaccctac 180

tgaatcttat gtgtaattaa aggccaacct tcaaacagca ctggataggt gaattgtgtt 240

ggtacctttt tcttgagtg gatgcgcaact aaaccgtgca tcataaaggt gttccagtct 300

cggctaataa tttccaaatc tctggagcgt atgctgaatg aagtgtctctt gtttatgcaa 360

ctgttggatt gtttagtcac tagactt 387

<210> 56609

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F7

<400> 56609

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gttatataag gtacctaggc gaactaacac ataccaacat agctatcaat tttgttctaa 120

agacaactaa atggagcttc actatctaga agatccacac cttacttaac tcgttcatac 180

caatgtcata actcaactat attgtcacct aaattaaatt cactttccct cc 232

<210> 56610

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G11

<400> 56610

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cttctgggta tggttactta tggttctgtg gaggggctat ggcggcggct gatgtggagt 120

accgttgctt cctcggcagg cttgcctggg ccaccagcaa cgagtcgctg gagaatgcct 180

acgacttcta cggcgagatc ctcgactcca aggtcatcac cgaccgggag acggagaggt 240

ctcgcggatt cggctacgtt accttctcct tcgagaactt catgctctac gctatcgaga 300

acatgaactg caaggagctc gacggtcgta aca 333

<210> 56611
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G7

<400> 56611

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gtgattgtat acttggtagt cagcccttag gaacaggtat gtgtttgtag caagacttac 120
gacgtgaaat gaggattctc ttggggacat taatgggtata acgtgcgaat gttagaacct 180
aaaaa 185

<210> 56612
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G9

<400> 56612

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tgatagttag cgtgtgtatg gcatggggct gaatcaaata atgtgatcat cgcaagggtca 120
caaacagcct ctttgtcatg tacatcgttt tccatcatgc tatagtgggt gtcagtt 177

<210> 56613
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-H2

<400> 56613

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aaaaaaaaaa aaaaaaaaaa aaaaagaaaa aatataaaaa ataaaaaaaa cataaataaa 120
aaaaaaaaaa atataatata aaataaccat aaatttaatt tatttcaacc tatttttata 180
ctaacttttt ctacttttaa aaccctttta ttctcttaac ttaatttc 228

<210> 56614
 <211> 179
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-014-Q1-K1-H6

 <400> 56614

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 catttccatc tcgattttgt atgccgtgac cacgaaagat taaatgtttt cttgcggttt 120
 ctaaaaaaag aagagcccgc tgacgaaaaa gcccacaaca ggacgaacgc tatagacga 179

<210> 56615
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-014-Q1-K1-H7

 <400> 56615

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 catgatgatg atctgtgtct catggatccc gacggcaaaa atatggaacc tgagccacccc 120
 ttccgctcgc tttatagccc cgtcgccatg gcgtcctggc tgacatcctc gatgccaagc 180
 ccatgcctgc gtcgaacgag agggagacca tagacaccca ctggccctgg cggtagtaga 240
 gccaaagatc tattcactag aagtacgcga cgcgccatgg atcgcgtgca gccgacgata 300
 cctccgctgc catctgtcca caaacagacg actctggcgg ctaattgtag cacttccaga 360
 gcggagacgc gttcaatgct ccggttagat ggtactttcg acattgaaac ttgctagcaa 420
 cttttacgga tg 432

<210> 56616
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-019-Q1-K1-A3

 <400> 56616

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tggcttgctc cctcttccg caccgggttc tcgctccgga gtccgggtgc cctctgctct 120
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 gaaggccacg tccaggagct ccaaggctgg cctccagttc cccgtgggaa ggatcgccag 240
 gttcctcaag gccggcaagt atgccgagag agtcggcgcc ggcgcccctg tctacctcgc 300
 tgccgtgctc gagtatcttg ctgctgaagt tcttgagctg gccggcaatg cggcacgtga 360
 caacaagaag acccgcatcg taccgcgcca cattcagc 398

<210> 56617
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-019-Q1-K1-A4

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 cgcccggcga tgagaccccc aagatctacc gcatgaagct ctgggccacc aacgaggctc 180
 gcgccaagag caagttctgg tacttcttga ggaagttgaa gaaggttaag aagagcaacg 240
 gccaggctct ggccatcaac gagatctttg agcgtaacct gacgacaatc aagaactacg 300
 gcatctggct gcgctaccag agcagaaccg gataccacaa catg 344

<210> 56618
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-019-Q1-K1-A6

<400> 56618
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 cccctgcccc ctcgggcgct tctggcgggc agcagtggtg tgtgttgtgt tgtgtgggtg 180
 cagcacggta gcatgctagc catgtgccct gctgtgttga gtcaccatcc atctataata 240
 atcttatatc tataccccac cttttgtgta aaaaaaata agtcttatta ccacttagtc 300

<210> 56619
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-A7

<400> 56619

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 tcatgcagca tgactgggct ctacctaaaga tggagcggca cgcagaagat gtgttgaaac 180
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 ttccagtttt tggtgaagcc agtttggacc aggaatttta ccatttctaa atgtattatt 300
 tataactagc tactataaca cccttagaag gtggagaccc ggtgttgtga tacttaatat 360
 aagtagaaaa aacgtaattc tgttacttta ttcttctgat atttatgagc atcgtttaag 420
 cactcgtgtg gtgatttctt ttc 443

<210> 56620
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B1

<400> 56620

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 tgctatacta ttggaccatc caatacaaca ttgttacgcc agaaaatacc attcatgtta 180
 taagactcca ggtattctgg atttacccca aatttgtcag atcctcattt agaaatatcc 240
 cgaacttttg aaccatcatt gccttatatt cataatggct ctcatatcaa c 291

<210> 56621
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B2

<400> 56621

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gaccatcact ttggagggtg agtcctcgga caccatcgac aatgtgaaag ccaagatcca 180
tgacaaggag ggcattcccc cggaccagca gcggctcacc ttcacggca agcagctcta 240
ggacggtcgc accctcgccg actacaacat ccacaaggag tccacactac acctggtgct 300
ccggctacgc ggccggcgcca agaagcgta gaagaagacg tacacctagc ccaaagcaga 360
aactttgatg aatc 374

<210> 56622

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B4

<400> 56622

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ggacagccgc atagcaatgg ttggtccgaa tggcgcttgc aggtccactg tactgaaact 120
aattttctggg gatctgcagc caactttctgg aacagtatct cgctctccca aggttcgcat 180
ggctgtattc aatcagcacc atgttgatgg ccttgatttg acggtgaatc cccttttgta 240
catgatgaag tgctatccgg gtgtgccgga gcagaagttg agggcacacc tgggttcggt 300
tggtgtttcg ggaagccttg cctccaatc tatgtacact ttatcaagt gtcagaagaa 360
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<210> 56623

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B5

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atatatactgg ataatagcct tgggacacta tcatcatgcg ttcgagggca aaacagcatc 120
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 aaggagcgaa ccccttcctt accgaaacgc agtcactcac atagcatgat agcataaaca 240
 gcctatacat tgccacgagt acctcatttc caggccgggt acgagttgtc ctgccggttg 300
 ttctgaacg cgcagcaccg gacggagtag acgacgacca ggaagatcag gaagaccatg 360
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<210> 56624
 <211> 510
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B6

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 gccgctcgac gtccctcgct tctcgaccg caagggtggac gacacggtgc acgaggtgga 180
 caagcacctc ccggggcgcg tgaaggcggc gtcggcgcat gtctacgagg tggttcgggg 240
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 atcccgtgag gcgctcgca tgacggagcc ggtggcgcg gacgtgtacg gccgctgga 360
 gccggtggcc aaggacctt acgtgcggta cgagcccgcg gcggagcacc tggccgtctc 420
 cgctggcg cgtctgaacg gcctgccggt gttccgcac gtcgaggaga tctcgtgcc 480
 caccgtcgcg cactggggcg acaagtacaa 510

<210> 56625
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-019-Q1-K1-C1

<400> 56625
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gacatgattt catgcctgaa catatattgg gccttcatcc tttcctcttt aagagtagat 180
ggaagaaggt gcgacttggc aaggtaaaag ttaccaacat attttgaagc ttgctggtga 240
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tgtattttgc agagaataac tcaacttgaa aactagtggg tcttacttca agaaaataat 360
ttcgttgtaa atgctaagaa gggatggaac atggctgcta aatgctaaca agttattttc 420
ccacgaacaa gangaatctc acttgtaa at tattatgcat 460

<210> 56626

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C2

<400> 56626

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tggcagcaag ttcagcaggg gccagactaa tgaatgagct tgatagcatc cttgcagcgg 120
tgccttggac tttggcgggtt agaagagggtt tataatttta tatgatgaaa ttatgtgcat 180
cttcagttgt ttttgctca ctgctctgta aggacatata aaattgggtat ttgtactttc 240
taaagttctc cttggaatgg tagagtttta caggggaacct ttcacatca gttgctgaca 300
tagctcgaaac tcgacgtttc t 321

<210> 56627

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C3

<400> 56627

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gccatcaggc caaacatgcc ttagttggca tgaggacacc gctcgcaggg attaggtaga 120
gcaattttgg cagatgctga aatacgggtgt ggggtgtggcc tgcgcattca ttgcctgcag 180
acaataataa ggtgcttatg ttcttgcaac aaactgcagc acctgaaatt ctgcgtcatc 240
atcactgccc tttccaactc agcagagctt gaagatggca gcagcttcat ccgcagctgg 300

ttgttgcaga agcaatgatc atcatgacta aatctgacag taatgggttc gagagagatg 360
ctaagatgtt gatctttttt tgggt 385

<210> 56628
<211> 485
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C6

<400> 56628

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tcacggacgt tgcagcctgt agggagggca tgactgggaa tgtggtcagc gtggaccttg 120
ctaactccgt ttttattaac cacacctctg acaaggagta caagctgaaa ccaattgggtg 180
atgctggccc tgtaattgat gccggatgga tctttgccta ctcccagaag acaggaatga 240
ttgcgtcaaa agctgctgca tgaaggaaag cttaagcatc cgatcctctt ctgagatgaa 300
gaagtaagct ggagttagga ctaagagtta ctgcacctac ttgatgtcga cgggtgtctca 360
aaataagttg cggcctacct aaattatgat gaatcaatca atttggctctt tgtcacagat 420
cgtttttttt tgtttgctac tagtacttgt acaattgtac tctgcctgc tactgtcctt 480
atctg 485

<210> 56629
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C7

<400> 56629

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ggagtgatgg caagccacag gagtggcgag acagaggaca cctgcagggc tgacctctca 120
gttggcctgt ctacgggcca aatcaagacg ggagctcctt gccggtctga ggcctggcc 180
aaatacaacc agctgctcag gatcgaggaa gagctcgggt atgccgcggt ctacgccgga 240
gcaaagttca gggcaccagt ggagccctac taagaaagga agaggatggg gatgttttct 300
tgtggagcta tactagctcg ctgctgcctt ttgttacaat gtttgtacgg tcgcaataaa 360

tgtatgggtcc tgtttgctcg agagctactc aggtgatttt gtcgtgggag caccaaaaagc 420
 agaaaagaac tgtttttttt tc 442

<210> 56630
 <211> 465
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-019-Q1-K1-D2

<400> 56630

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 ccgtctcggg cgtccagtac gaggacgtca ggggcacctt caccgtcagg cccgcgcacc 180
 tggcgtgcag cgacagatcg ccttgcctcg ggatcaccct cgccgggata cagcttcagc 240
 ccctgcgct gtcgcagcac cgtcgnctgt cgtacgaccc cttctgctgg caggcgttcg 300
 gggagctgtt caccctcacc gtgccccca taccttgctt gcagatcggc aggccggcag 360
 cagggaacag cgtgctttcc gacggtgacc tttgctgaaa cgccgatcgg ttcacagtt 420
 aagctaaggc ggtcgtcgtg atgctttcga ccaactgcttt gcacg 465

<210> 56631
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D3

<400> 56631

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 gctgcaagtt gtcctttgct atttagaatg gaagaagaaa tgccttgctt ctctg 175

<210> 56632
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D4

<400> 56632

gaattcccg gtcgaccgac gcgtccggac gagaagtcgc tgcagaaggc ggttgctcac 60
cagccaggta gcgttgccat tgaggccgga gggcgggagt tgcagctcta caaatcgggt 120
gtcttcagcg gaagctgcac cacgaacctt gaccatgggtg tcgtcgcggt cggctacggc 180
gccgagaacg ggaaggacta ctggatcgtc cgcaactcgt ggggcccga gtggggcgag 240
gctggttaca tccgtatgga gaggaacgtc aacgccagca ctgggaagtg cgggatcgcg 300
atgatggcgt cctacccgac gaagaagggc gcgaaccctt ccaggccgtc ttcaaccccg 360
ccaacaccgt cggctgcccc tgacaatgtc tgcg 394

<210> 56633

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D7

<400> 56633

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aaaaaaaaa aaaaaaaat gtaatgtaa ataaaaaag gagagaaaga aaaataaaaa 120
aaaaaaaaa aaaaaaaaaa aaatccaccc attttaaaaa atccaaactt tcttcccc 180
ttttttccaa cccaatatt ttttttttct tccctcctaa atccatttcc tttcccttct 240
ttttccaact ttttccctcg aaaaacctct ttattcccca atttattcac ctttcttaac 300
ttcccc 306

<210> 56634

<211> 305

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-019-Q1-K1-E1

<400> 56634

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catcggcgga caccctacag gatccgaggg cgctgcncag tggatgccgg agaggttcat 120

gctatacggc tggcacaagt ccaacaacta cagcggccat tacttcatgt acctgtcgat 180
 caactctggg cgcccgatct gaatcggggg caacttcatg ctcgcttacc atggagatca 240
 tgctcgccaa cctcatgtac cattttcact gttaagtacc caatcacaag gaatacgggtg 300
 aatgg 305

<210> 56635
 <211> 333
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-019-Q1-K1-E2
 <400> 56635

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 gagtcgaccg cacaccacat tgaagtacag gttcaggaag ctgggtggggc tgaagaacca 120
 gaaggaccag catttctcgg atctgatagt ggagcagaag gaggagctga agaatcgcg 180
 caaccagttg atacagacac tggagagctg tggctgggaa gctgccatcg gttgcggtgg 240
 catctcgatg ctggcgaagc ccaccgcgta catggggaaa gccttcaaag ctgctggctt 300
 tgacagcgag ctggacgcga gcaacattcg gga 333

<210> 56636
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-019-Q1-K1-E3
 <400> 56636

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 cgcacccggg cccactcgtg agaactgaca gcggggcact acgacatcac gtcgcactac 180
 ctgtacgcgc gcatcgtgcg catgctgacg cgccactgcg ccgtgctcaa ctttacctgc 240
 gtctagatgc tcgaccacga gcagccgtat gacgcgcagt gccatcccga ggcgcttgtg 300
 cagcaagtgg ccgtcgcggc gcgggaagtc ggcgtcggtc tggacggtga gaacgcgctg 360
 acgcgtact acgacacggg gcacgaccag ttgggg 396

<210> 56637
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-E4

<400> 56637

gaattcccg gtcgaccgac gcgtagcgga ctaccctgag aagccaccat cagggctatt 60
tcattcaaga ataaacttaa catgcgtgaa tcgtgaaact ggagtgggtg acccgaagaa 120
gttcagcgtt ctgggtaact ggcagcgtga ttactcaatg gaatacatcc taacccatct 180
caagaaagag atgacatctt cacagaaccg caagctagtt cagcctcggg aagggacatt 240
cttctaaaaga tggcagcaac tcatgtccat ccatggtgac tcggaacag cttccgcacc 300
tggttcctat attttatata tttagtctga tctcccagtt atctgtaaac caccgagatc 360
gagtgcgaagc agacttggtt gatttacaat ttgcccggtg gttgctaata atagggatg 420

<210> 56638
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-E5

<400> 56638

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aattaaattt aaaataaaaa aaaaaaaaaa aaaagtaaag tataattaaa aaagggtggaa 120
agacaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aataataaaa aaaaaaaaaa 180
aaaaaaaaaa taaaaaaaaa aaaaaacgcc tcctttttta aaaattcaaa ttttataaac 240
ccttacttcc aatacattca tttttttttt ctgcccccta atttaaatta atttcccctt 300
ttttaaaaaa tattaattg aaaaaacctt tctttacccc aatttaaacc ttttaaaaaa 360
aaaccctttt tccaattttt actaaattcc aaaaaacccc taaccaatcc cttttccaaa 420
aattttccca ccctaaatga aaaattgaac cccctttt 457

<210> 56639
<211> 485

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-019-Q1-K1-E6

<400> 56639

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ggctgcttcg tcaaggcacc cggcggcgcg cccggcaacg tcgcctgcgc catcgccaag  120
ctcggcggat cctccgcctt cgtcggcaag ttcggcgacg acgagttcgg gcacatgttg  180
gtgaacatcc tgaagcagaa caacgtgaac tcggaggggt gcctgttcga caagcacgcg  240
cggacggcgc tggccttcgt gacgtcaag cacgacgggg agcgcgagtt catgttctac  300
aggaaccoga gcgcggacat gctgctgacg gangcggagc tggacctggg cctggtgcgg  360
cgcgccaagg tgttccacta cggctccatc tcgctcatct ccgagccgtg ccgctcggcg  420
cacatggccg ncatgcgcgc agccaaggcc gcggggcgtgc tctgctccta cgacccaac  480
gtgcg                                           485

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<210> 56640
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-019-Q1-K1-E7

<400> 56640

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taccggtctt gaattcccgg ggcgaccgac gcgctccgggg ggaacagctg gagagaggcc   60
ttttcaatgc cgccatcgac aggctctttg gcgccaagga acgtgaggag agcggggaga  120
ggatgaagga attcaagatc gctgcggcca aaggcatcgg catcggcgtc gacgtcgacg  180
aaactgcgtc tccccgcacg gatttaaccg atttggttga tctcataaaa tccttctgag  240
ctcatgacga tcgatctgtt gggatgatgcc tactctgtcc atcgtgctcg acttgtcttc  300
ctactactgt accactgtct gtgctcactt ccacgttcct gacggtgttg tgatctagcg  360
tatcattgtg cgatc                                           375

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<210> 56641
 <211> 308
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F1

<400> 56641

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aattccccggg tcgaccgacg cgtacgggtcg ccgacccccct ccggctccaa gccctcttgc   60
ggcgccaacgg ccgcgccgtc gccgcagcct agcgccgcgc cgaaggccgt ctgcgccagc  120
tccgtagccg cggctgtcgc cactccctg ctctccctgg ccgcggccgt gctggcatga  180
tcacttgatc aggatcgtgt agtgctggcc aggggacggc gcctttgtga attgtgagag  240
ctcgtactgt gtctgtgtga ctgtctctgt ggccgtatga gcatttagcc ctggatctgt  300
gtttgttg                                     308

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<210> 56642

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F2

<400> 56642

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tccggaattc ccgggtcgac cgacgcgtcc gattttgtca accgcaaagg agatgatggc   60
tacaccactc acaatggcat cgtggggcga gggatgcat gttccgagct acgagtctgt  120
tagccgcaag tttcactcga agtgagagga tccagcatga cctgttccaa caactgatgt  180
gaagcctgca acggccctca gctgggacag ttactcccc acagaataaa aacctcccat  240
gtgggttcta gcgccccccc taattactcc ctctgcatgt atacgcaaaa catgtttttt  300
tttgtggtaa gaatcatcaa gccocttggc gactcgttta tgagtttcgc agcggcgcta  360
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<210> 56643

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-019-Q1-K1-F3

<400> 56643

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tttactccat cgagttcacc tatactgaca gggctgggca naagcgcgcc gctgggcggtt 120
taggtggact tggcggcaat gttcgaacga tcgacctttg caacgccgag gatgtcaagg 180
aaatctcggg aacatacggc gcatttgaaa gtgccactac gctgacctcg ctcaagctct 240
gtaacagcag cagaaacctg gggcccctgg ggggtcgaga acgggacgcg tt 292

<210> 56644
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-019-Q1-K1-F4

<400> 56644

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cccgtaacctg ttgcagttca ttcgtgaatg caccagcaag gtggatgatt gagtgaanga 120
caagattgag tcgcagaagg aagaaagagc caaagagaag gaggagaaag accttgtggc 180
tcagcagaac atgtatgcac agctgcttcc tctcgctttg cccgccccgc caatgcctgg 240
catgggtggc ccttcacctt cgatgggcgg aatgggcatg ccttcgatgg gtatgccgcc 300
gatgccagca tttgggatgc caccgatggg aagctactga tttggttttg cagcataagt 360
ggaacttcat tggagttgta gatggttgac agtttggaat caatattctt cattgtacca 420
agaaaactttt 430

<210> 56645
<211> 490
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F6

<400> 56645

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tgcatttacg ggtcaaggac cttatggaac ggctgtcgtg cctggcaagg ggggagggac 120
gctggcctgg ctaccgctcg gctctagtaa cggaacagg tatgtctcac atcattgctc 180
gaagactgga aaaacatcaa gttatctcag ttgggtagag tgctggtctg tcaactccata 240

agtcgcgggt tcgaaccccg ttttccccgc acgatctgaa acttatagaa tagaaggggc 300
cataaacagg atagtctata ccaattcatt tgggtgtactt gaaataactt aattcgaaat 360
tgttccgtca agtataagaa attaataataa caatgaataa ctactcaat ggattatacc 420
ttgacactta tttatcttaa tattcattcc attcatgcca ttcttaagca aacacgaaaa 480
agcttatatt 490

<210> 56646
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F7

<400> 56646

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gggggggtcgc ctgagatcac agggacagtgt gtgaaggcag tggctgtcgt cgccggcact 120
gatgtcaagg gcaccatctt cttttcacag gaaggggatg gtccgaccac cgtgactgga 180
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accaacgggt gcatgtcgac tggggccacac ttcaatcctg ttggcaagga gcatgggtgca 300
ccggaagatg aggaccgcca tgccgggtgat ctggggaatg tgacagcggg agaagatggg 360
gttggttaatg tcaatattac tgacagccag atacctcttg ctggacccca ctgatcat 419

<210> 56647
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F8

<400> 56647

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tgggctcctg ccgagagctc accgagctcg gaccgtcgaa aggcgcaagc ccggtggaca 120
tgccgaataa cacatgcaag ctctgctccc ggcgcttcac cagtccccgc gccctcgccg 180
gtcacatgcg ctccattcc ctctgctcaaag ctcatgctga ggccgcggag gcagcgaatc 240
ggctgatctc ttctgcatcc tccacgtcca cttcttcat cgccgcccgc gactaggacg 300

tcatctcgaa gattcccact tccacccacg gactctaata gaatccgaat cgcagccttc 360
tgttactcga ttccagttta tcatatcgcg aaagctagtc tgaatacacc tcatcgta 418

<210> 56648
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-G2

<400> 56648

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aaaaaaaaag aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaggggg ggcgctcttc 120
aagatccaac cttacttacg cctgcattct acgacataac tcttctataa tggcacctaa 180
attcaatta 189

<210> 56649
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-G3

<400> 56649

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ttcgtgtgtg gagaagctca agaagatggc tggcgcggtg acgcaccgga gggaagggca 120
gcatgcgag gaagaagaag gcagttcaca agaccacgac cacagatgac aagcggcttc 180
agagcacctt gaaaaggatc ggggggaaca ccattcctgg tatcgaggag gtcaacatct 240
tctaagacga tggtgttatc cagtttcaga accctaaagt gcaagcattc attcctgcaa 300
atacatgggt ggtagtgga gtaccccaga caaaaagtc 339

<210> 56650
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-019-Q1-K1-G4

<400> 56650

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tctgcaatac aatattcagt gccatcaggg caatgatang cagtgaaggg gattatgaca 120
tcaggaaacc atgcatcgga agcctatgct atgattttctc taatttggag aaattttctca 180
acctcaaate tgtcagagag agcctagggg ttggagatat agagtttggt tcatgcagcc 240
caactgtcta tgaggccatg ctattagatt ggatgaggaa ccttgaagtt ggaatccctg 300
aactccttga gagegacatc aaagtgttga tttatgctgg agagtatgac ctcatatgta 360
actggcttgg gaactcaaag tgggtaaact ctattgaatg gtctggaaaa gaagctttt 419

<210> 56651
<211> 556
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-019-Q1-K1-G7
<400> 56651

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ggctgcaagg gcacggagcc tggactcga cgttccagct tgaagaagaa ccaaagttc 180
attccccctt aactgggtca aaggaaggcg ccttggatgt ggaaatgcct tcaaagata 240
naagaatgtg ctanngctc tccccctgca aaagcgacan agccaatgcc aaccaaacgg 300
tgtgcagccc ttcaacaagc caccacatca caagggcagt tcatcgcgta aaggcccaca 360
ggaannaact tgtatttggc tctggtggta gccgaagcc gaaaaagggc acctgaaaag 420
gaagcagagt gagcccaaga atagaagaac caaaattcg cagcattcac agtgaaagaa 480
atactcactg aagggtgaa taaataggaa gacaatgtat tatcagtatt tccggtgacg 540
gacatttca gggaga 556

<210> 56652
<211> 243
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-019-Q1-K1-G8

<400> 56652

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aaaaaaaaaa aaaacaaaaa agacatgggt aacttagaaa aagctccaag ccatacaaca 120

aacccttcct aaaaaaacct atactataaa acaactccat tatccaaaat ttatcaacct 180

ctaaaaacaa cataaaaaac ttaaaaaccc atacaaataa cactttcttt tactcatccc 240

aac 243

<210> 56653

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-H2

<400> 56653

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gcttcaagga ctgagtctac atgtactgcg aaggtaatgc tggagtgatg gtgagcccca 120

agggcgagat taaaggatct gctatcactg gacctattgt caaggagtgc gcttaccttt 180

ggcctaagat tgctagtgcg gcaaatgcta ttgtctgata ccacctgttg ggaggctagt 240

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tactcgttta atgtactttt ggaaaagact cttaggcgca c 341

<210> 56654

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-H3

<400> 56654

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gctcagcagc cgcgcgagca catcgctctc ttgatctcag ccgtggcgga ggtggagcaa 120

caacaggaca cgcgaagct cttcaaccgc tggaccttcg atgatgtcca ggtgaacgac 180

atctcgctga acgactacct cgctgtgaac gcgacgaagc acgcgatgta cctgccgcac 240

accgaggggc gctactccaa gaagcgggtc cgcaaggcgc actgcccgat cgttgagcgc 300

cttacaaaact tcctcatgat gcacgggagc aacaaccgca agaaggatcat tgctgtccgc 360
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 gtcgtc 426

<210> 56655
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-019-Q1-K1-H4
 <400> 56655

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 acaaattaaa cttagctctt agagtgagga gaaagtaagc tgtagctgt ctgcctaaag 180
 gaaagaaagg aaaaaaagaa gctggaagcc atcggcaccg tgtttcatgt gttggtatag 240
 ctgctgtggt tctcctgttg tctgtctggc ctttgttgta acataaagct gaggcgcact 300
 agcctgcctt cgttttcaca gttaagctga agttattagt atcagctttc ctgaactgct 360
 tgggtatgtaa tgtgactgtg tttcttactt gtactaatgc ttgtctcatg taatccaggc 420
 cctgatgtc tgaaatgttt aatctcaaat tttcacc 457

<210> 56656
 <211> 125
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-019-Q1-K1-H5
 <400> 56656

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 ttctatccca ttggtgtaa tatttttact gctattgtca atggaaagcc gtcgggttgta 120
 tcccc 125

<210> 56657
 <211> 499
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-019-Q1-K1-H6

<400> 56657

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cgatatctacc ggcgggcaaag gcgctcttgg tccggcctcc ctgcggtgcg cggtacgaca 120
gtcgacagga tggcaatggc cacatcagca tcgtaccctc cacctcctcc attttaccga 180
ttgtacaaaa aatttgagca agatccctca tctgcaccag aacctccacc accaattgat 240
gaaccattca aagccttggg tgttgattac acaggagatg ttgtgattcc aagcttggag 300
agtcataatg tccgtcagct ttatccaaag ggtcccaata ttgacttcaa gaaggagctt 360
angacctca acagagagct tcaattgcat attttggagc tggcagatat attagttgag 420
agaccatctc aatatgctcg tagggtagaa gatattacgc tcatattcaa gaacttacat 480
catcttctca attccttac 499

<210> 56658

<211> 501

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-H7

<400> 56658

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gtcctttata ttggaagga tgcgtggatt cgtagagaag attgggttaa aaatgggtgc 120
cacatcgga gtggcagaaa atataaggat tcctattttc ttcaggcgca agtaatgtgc 180
tactacaacg tataacagta tcttatttcc gagctacaca cgaagacttg cacttatata 240
ggttgttcga ccgtccaaac catcctagaa tatgattggt ggactgcgat taaattgcgt 300
acatgatgca tcagttctat gcatgctcgc tgctgtctgt tcggaagtca tcaactcggg 360
acctggacta agggccttgt cgttcgctca acccctatga aaaagtgttg ctttctaaag 420
atgtagtaga agtactcatt tattccctgc caattgaaca tttcaaactc tcgtatgggt 480
gtaatgaaaa atcttgatgt t 501

<210> 56659

<211> 170

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-A2

<400> 56659

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 cagggtgaat ccttagaaac atctcttgga gagcttctag ccttgaggca ctcgatatct 120
 gccattcaag aagagtcaga gattcttcac ctacccatga tattggtgct 170

<210> 56660
 <211> 194
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-A3

<400> 56660

acagttctat aattccccgg tgcaccgcac gcgtccgaaa aaaaaaaaaa aaaaaaaat 60
 aatctttttt taaaaaaaaa aataaaaaaa aacaagagga cttttttaa aaaggtgcgg 120
 cgcccccttt tatatttttc acctttcaat gagatccttt tcacctttta ttaacctttt 180
 ttttgccctt cttt 194

<210> 56661
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-A7

<400> 56661

tccccgggtcg accgacgcgt ccgaggacgc gtgggcagcc cgtcacctac cattcgaccc 60
 gccgcgacgc tcctgctcg gaacagcctg cgttgctcgc ccacacgacg ccacgcatgc 120
 aggaggagcc agggcgtcgt cccgtgccgc cgttcgcggg cgtggacctc cgccgccccca 180
 agggctaccc cgtggcggtt gccaaagagg agaggccggc gccgggcggc gacctgtgcc 240
 cgcggtgcgg gtcgcgggac accaagttct gctactacaa caactacaac acgtcgcagc 300
 cgcgccactt gtgcaagtcg t 321

<210> 56662
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-A8

<400> 56662

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 atcgccagga ccatgatgaa caggtccatg gcccaaggagt tggccggcac cgtcaaggag 120
 atcctcggca cctgcgtcag cgtcgggtgc accgtcgacg gcaaggaccc caaggacctg 180
 cagcaggaga ttgatgacgg agaggtcgag atcccgctcg cttgaagcca tccaagggga 240
 cttccattgg tgctgctgaa gtgttgttgt tctgcatgct atcgatgtac ctttttcaag 300
 caacgcgagc catctatctt ttttgtctag ctatgttagt gatatctggt gagagacctc 360
 aatgttacca ccgtattctt gtctttggtg gatggagaga ttaagcacc tcacacacct 420
 ttgtctt 427

<210> 56663
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-A9

<400> 56663

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 acttgtggaa aaaaaattg catgtaaata actgggttgt tgcggatctt aaagatccag 120
 tgggatttat gcaattttg cttgaaaatt tgcttctgtt tggcaatttt catgtaacat 180
 aatttaattc acccggacaa cagactcccc ttttcttatt ttgggaaata ttaagcatgt 240
 accttcaaaa aaaaaaaaaa aaaaagggcc gcccc 275

<210> 56664
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-B10

<400> 56664

ttcccggggtc gaccgacgcg tccgcgcaaa gctcgataaa aatgaggtaa tgaaagctgc 60
 tgcaaaagct cgggcatcat cctcgggtct ggcaccaatg gatgcccgtc gtggtcatga 120
 agctgatgtc atctccagcg acaatgccag tgtcaggagc ggcatgagtg gtgactacag 180
 cggcacaaag gaatcaaaca tcgagatgaa acttttctcca cttcagaact cataccccca 240
 aagccttgca agccaggatg aatatgatac cggcacacca accgcaagca gtctaagcag 300
 tccggtctac atccacaagc ttgcctctca ctctcagttc agtgcagcgc ctcgccctgc 360
 gcctcctgaa agattttgtgc cagctatggc acggccaccc gttcctacca cacaaataac 420
 caaccagggt ataccgctgc cagctgttcc cacaacac 458

<210> 56665

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-B12

<400> 56665

tccggaattc ccgggtcgac cgcacgcgtc cggtggaatg ttgtgcggga ggcgttttcc 60
 cccgttatta gtagcgatct gcgtgctata tatggtcgct gaagtcaaaa ttggctctct 120
 tttatttttt atctactact actactcatt tgcgagtgag agatggctctg ggcacaccat 180
 tcaattgcaa cggcctactg gtgtgttgcc cccaatgag ggctgtgacg attgcgccac 240
 tacctcgtga gaaacatgat gtgaccgaaa 270

<210> 56666

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-B7

<400> 56666

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 gccatcctac tgagtttgac ttctacctgt gtagccatgc tggcattcag ggaacgagcc 120
 gccctgctca ctaccatgtc ctgtgggacg agaacaagtt cacagctgac gagctgcaga 180
 ccctgacgaa taacctgtgc tacacgtacg cctaggggca cccgttcggt gtcacggggg 240

ccccgggcgt actatgctaa tcttgagcc ttcagagctc gcttctacat ggagccagac 300
acctctgaca gcgggtcact ggccagcggg gcccggtggc cccaccagg tgcggcacgc 360
atcacgagag gggcggggag tg 382

<210> 56667
<211> 384
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-B9
<400> 56667

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tggttacggg aggaagcctc aggttgagga gagctatgga tctgggtacg gcagcaggcc 120
gcanggtggg gaggagtatg gcagtgggtg gtatgggagg aaggctcang aggagacctt 180
tggctcctcg gggatatggc atggcaggaa gaacgaggag cagagctatg gtggttctgg 240
ctatggttat gagaagaagg catctgagga ggatgaaggc gcctttggct ctggtgggta 300
ccggaagcca aaaccctatg gcgaggagac acaggggtca tacggttatg gagaggaaca 360
gccaagtat cagagtggcg ggta 384

<210> 56668
<211> 469
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-020-Q1-K1-C12
<400> 56668

gaattcccgg gtcgaccgca cgcgtccgg gacgcgtggg cgagcatatc cgacgactga 60
caaggcgagg ggagcactcg gcggcgatgg gcggcgggcg gcacatggc ggcaccacct 120
acaagggcta caccatcccg cacaacaagc gctggcacac cgtcgccggc aagggcctct 180
gcgccgtgat gtggttctgg gttttctaca gggctaagca ggatggtgct acgctcttgg 240
gtttgcgtca tccttgggat ggacatgatg accactctca tggatcatgga caggggcatg 300
aggcatcatc atcgatcatc tcacattaag ttccttactg gctgcggacg atgcttggca 360

tggtccaaca gctaaagttt gagttaataa attctatcac cctgcatggg actcatgttg 420
 ttgcaactg gtttagcacg aactgggtctt gttactattg tgctaattg 469

<210> 56669
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-C2

<400> 56669

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 acacctggtg taaaggtctg aaccgtgctg gtgtcacggc gtggcctagc gacattctcg 120
 ccacgctccg catgtaacgt tctcgcgcaa aaggcgggca cgacgcagcg tgagcgggtg 180
 tggcggggaa agcggatcgc attctgttgt gaacatcaga ggaataaagg agaaagtgca 240
 gggcgcagtt gcgcagtctg cggcaaagta ttttctgcgc gttccgtagc ctctgctctg 300
 tccagttttt ccgtcagggtg aaaacagagt agccactgat cgctgtcgag cttcccattc 360
 cggtggccgg cgccaacagg gaaggtgcac ttgtagtagc tgcgcggggtt ctgctcccc 420
 t 421

<210> 56670
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-020-Q1-K1-C6

<400> 56670

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 gagtaagctc aattcctata ggtggggaca attgatccgg ccgtgatgtc tactcactca 120
 ntgatatcat ggctctggcg aagaatgatg tttatgctcg catcgaactt gaacaagtga 180
 ccgtacaaaa tgctttggat gtgcaatacc aggtgcatgg ccgaagacag tgtcatactt 240
 gtttacagac gaggaccttg ctggaagttt tggagggatt gtccattcca ggagtgcgac 300
 ggcttggtgt tattgaacaa agtaccagat ttgtggaagg aatcatctca ttgagagacg 360
 tatttacatt tctccttggg tagcatgtgt atccattcca tacatgaaaa agcttgctgt 420

acttggttca aacgaaataa aatgcttaca aatgtgat

458

<210> 56671

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-C8

<400> 56671

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ggaggagggc aacaagagga ggttacaggt ggccaatag atctactggt gttgaggag 120

ttgatgcaaa gctgagttgc tgcgcgttgg ctttcttttag agatggcttc agctggtgtt 180

gccccttctg ggtacaagaa cagcatcagc accagcattg gtgccgaaaa gttgcaagat 240

cacatgaacg agctaaagat tagagatgat aaggaagttg aagcaaccat aattaatggg 300

aaagggaccg aaactgggca cataattgtc accactactg gtggcaagaa tgggtcaacca 360

aaacagacag tgtgctacat ggctgagcgc attgtaggtc aaagttcttt tggga 415

<210> 56672

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-C9

<400> 56672

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gacctgttgg agttgatgga cttctaacta cgcgctgcat tttgcgcggt agtggacaag 120

tggatgaatgg tgacaaggga gtggtttaca cccacaagga tcttcttttg caatgaggca 180

aataacctcc gttgtggtcg taacgaatgg ctggactccc cttttaagta cccttttctt 240

ttattccatg ctacaaagtt tgggtgctgta acaagcagaa tgctatttta gtaggcattg 300

atgtaatcag accattttgt cgtggtgttc cttgtcgtat aaaacatccg agacatctgt 360

attagaggcg cggtagctag ttgatacgcg attgttcttg atgaaatttg gatctgttcc 420

aaatgcatga taatgcatgt gtgatgaggt cct 453

<210> 56673
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-020-Q1-K1-D2

 <400> 56673

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 aaaaaaaaaa aaatggggat tataaaaagg ggggcggtct tataaccaac ttaactccgc 120
 cccccctaa aaccctctt tt 142

<210> 56674
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-D5

 <400> 56674

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 catgttttgt ttacatatga accctactca acgggggtctc tatacaagggt gagtgcgtat 120
 gttcaatgct gctttcatca tacttatcat ctcttctatt tctttcacca tcttccctcc 180
 cctaattatt taaaccctct tttttgttaa aactctatct ggtgttcttg ccttaaccct 240
 gttttcttga gtgcacattg ccactctctc ttccaacacc tttgttgcac tatacaattc 300
 taataagctc attt 314

<210> 56675
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-020-Q1-K1-D8

 <400> 56675

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 caggaagatg gtggagaagc tctacaaggc cgccgcgtat aagacagcac acggcgcaga 180

tgccgcctca ggttcttcaa gcaccgatct cacttggatc gattgacgtg gatgggttttg 240
 tttgggttggg ttcccagtct ggtactgtag cgggtgtatca tgagcgcgtg ggtagccttg 300
 agcctggcga ttctgtaatt gtcctcttct gaaatgttga gagattcatt tttaaaaaaaa 360
 aaaaanaaaa aaaatatttt taatttaaata taattttattt atatataaat ttattttatta 420
 ta 422

<210> 56676

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-D9

<400> 56676

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 ggccaacccc accctaccgt gagtgaagcc ctcaaagagg cttgcttgca aaccttcgat 120
 aaagcaatcc acatataatt tctcattttt tgtgtccaaa ctccaaagtt tgtggtaatt 180
 ttgggtctgt tggaaaaaag gccctgatt gtcattttgt ttttgtcggc catactgtga 240
 attgaccctt tgagttgtcc atcttagcgg ggttttgtgc ttccttggct tggtttatcc 300
 atccaaataa taacctgata ctatgtttta cattttatgc ccatgaacca ttgatggata 360
 tca 363

<210> 56677

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E10

<400> 56677

accggtccgg aattgccggg caggacgtta aaactgattt gcgtttccag agccatgcgg 60
 tgcttgcctt ccaggaggct gctgaggcat accgtgttgg cctgtttgag gacaccaacc 120
 tgtgcgccat ccattgctaag cgtgtgacca tcatgccaaa ggacattcag ctggcaagga 180
 ggatccgcgg cgagagggcc taatcgccac ctcaaacatc gtgacaaaaa catgaagtcc 240
 tggggttatt gttaatctgg tgccattgta aggacatatg agtagggttt gttttgtgga 300

tcgcaagttt ctcttctgct actgttgctg ctacctttgc tgggtgttatt gctagggctcg 360
aatacttaag ttaactatgc gctgacagtc tggactagca gtgttatgtg cgc 413

<210> 56678
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E12

<400> 56678

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tttctgggtgc ttcttacctca gacctgatag aggcgttgcc gaaaaatcca cttacatctg 120
taaataaggac agttaatggc agtttttggtc aaccatccaa tgctgggggt gatgtttatc 180
ctgtggaatc ttacgagagc ttatcagtga accatgtact tgatgctcat tgggggtgttc 240
tggatgatga tgatgcgact ggacttcgct cgcatactct ctccatcctt gtgaatgact 300
gtcctgggtgt cctcaacatt gtaacaggag tctttgctcg caggggctac aatatacaga 360
gccttgctgt tggcccagct gagaaggaag gcatttcgcg gattacaaca gttgttcctg 420
gtactgttga atccattgag a 441

<210> 56679
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-E7

<400> 56679

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tggtaggcaa caagaccaag acccctggac ctgggtgctca gtctgctctc agggctcttg 120
ctcgttctgg gatgaaaatt ggacgcattg aggatgttac cccggttccc actgacagca 180
ctctcgtttg tgaatacctt gtggatccga cagtcaattt tgtgccgtaa attaattgtt 240
aatttgctgc ttcgagtana aaaaaaaaaat aaaaaaaaaa aacattaaaa ataaatacaa 300
attgaacaac aatcaaaaaa aaacaaa 327

<210> 56680
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-F10

 <400> 56680

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 gatatccccct tcctcatcct attctacgtc tggatcttgc tggtcgggac ctcaccgact 120
 cgctcatgaa aattctcact gagagggggtt attccttcac aacctccgcc gagcgagaaa 180
 ttgtaaggga catcaaggag aagcttgctg atatagctct tgactacgag caagagttgg 240
 agactgccaa gaacagctcc tcagttgaaa agagctatga gctacctgat ggccaagtaa 300
 tcaccatcgg tgcagagaga ttcaggtgcc ccgaggtcct cttccagcca tccatgattg 360
 gtatggaggc tgctggaatc catgagacaa catacaattc aatcatgaag tgtgatgtgg 420
 atatc 425

<210> 56681
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-020-Q1-K1-F6

 <400> 56681

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 tattttatttc aaaaaataat ctataattac aataagctgt nttttaaaag agggaagggg 120
 gcacaaacat accaaattat caaacatatt acagtgcctc cttattcaca ttctaccagc 180
 cctcttttta caaactttgc cactttttta atcccctccg tccccaaatt aaaacacctt 240
 tcaccacata tctctttttt cctccaactt aaatacctat taggccccca cttttttacc 300
 tt 302

<210> 56682
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-F9

<400> 56682

cgtccggatt tcccgggtcg accgacgct ccggcctaac tgcagtgtta tttcatgagc 60
agtaaataaa atttgtgtcg aatagtatgt gatgtcgtat cactttcaag tgtcttgaat 120
ggactacata ataggttctc ctaagtcaca tactcacatt gtatacattt accttacaga 180
gtcttactta tgttggtact aatcaaggat cttttatatg taactccaac gccttgccctt 240
tgttggaggc aagggtatth cacatgtttc aaattgccat gctgaaggag ctaacgaaaa 300
ccaactgtgt tccacagata ttagaacctt tgagatcctt cttcgcacgt atgaagtacg 360
agacgttgct ctgaagagcc tcacctccga tgaggcttat gtggggcctc ttccgcagaa 420
aagaagaatg cccacaaccc caggtgaaaa cacggactgc ccacaaagga c 471

<210> 56683

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G10

<400> 56683

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aagagtctct cttcgtaatg atagctatat gtcgggtgtt atcctaccag gcaaagttga 120
tccattgccc aatctcatca aagtacacta gtttctcat cctccatatt atcttacact 180
caccctcgac cagcacatac actagatcaa tcgtcatcat ccaccatgcc atcaaacact 240
tgctactcaa tatcatccac aaaatacccc aactccacaa tatctctcgt taagaacacc 300
gcatggacgc ctactcctag cacaagacca tctcctattg tcgcatcgtc tgcgtgtcca 360
actatcataa tcgttt 376

<210> 56684

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G2

<400> 56684

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 ttgacaatt ttaagtaata cagactta 88

<210> 56685
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G4

<400> 56685

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 gctttaaaaa aaacccaaaa tcctggtgat gtctgcccggt aggtgtacga ctgcaggagc 120
 agtgtgttct ggtgatgcaa ttaataagca tgatgttctt catgttgaga actgcaacac 180
 tccaactgta gccgtgtgca caactttgaa gcgtgttagcg gagaaagttg tatcagagct 240
 agttggaagt gaaaggatgg ggaacaacaa cagtgtctgaa tcgctggaga gtatggaaaa 300
 ggctgaaaat gtttgtttta gtgggaatgg agttagtcaa ggtggccttc cagaagagtt 360
 agaggtatga acaaggatac atcgtggaaa tcattactga ggatcagtgg cgtcaacgac 420
 acaaaaattga aggaagattg tggagataga caagttcta 459

<210> 56686
 <211> 124
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G7

<400> 56686

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 ttaccctttt aaatcggtcc tccttccccg ccctgggtga gattaaagcg gtaaagatcc 120
 ccgt 124

<210> 56687
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G9

<400> 56687

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ctggaggaga ttcgtttagcg cagagactgg taggacctgt atgagatagg gagaaaaggt 120

aaacgattag atgacgagag gatgatgcta tatttatcaa gtccgcagcg ccctgcctct 180

cttgtgacgg cccgcgacac aagtgtggtg attgacagtg acatcgctca ctctaagtta 240

ggttttggtt cttccctggc ccccgaaaat catcacctgg cgccgccaca ttcgaatgga 300

gatggatctg ctggcatcat cttgcttcct cttttgtaaa gcttttcctg ctgagtttag 360

tggtacctta gattgtcgtc cattttctgcc ctgttctccg ggcagctatt tgtagtgtaa 420

aaatatggtg gcgtgctgga tgggtgttatt tatgcgtgcg tggcctgtca tga 473

<210> 56688

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H10

<400> 56688

ttaattcccc ggtcgaccct ctcttcttat ctttatacca atgctaattt taatccttca 60

caaaaaaaaaa caaaaaaaaaa aaaattgttt ttttttaaag agtgacgtag atacaaaaaa 120

ctaaatacaa aacatcaaaa ttctcttctc tttttattta ctcccaacct acctttcctt 180

ccatccacca tcattctttt ttattcttta tacctacatc catttcactt cccacctttt 240

tttacttttt 250

<210> 56689

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H11

<400> 56689

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caaggcccgg gaaaagctgc tcgccaagga ggctgcgcag cggatgacct agattgtcta 180

ctgctgtgtc tgccctgtag tttgacgggg aagaactgat gaactcgtat tgtgggttttc 240
cgaatctagt ttcatatgtt tctgtccacc ataccatgtt tagaagcttt gcaagacaga 300
gtttacagtg tttatgttat gcctcagatc c 331

<210> 56690
<211> 69
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-020-Q1-K1-H12
<400> 56690

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ttttttttt 69

<210> 56691
<211> 438
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-H2
<400> 56691

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accgttgaaa acagttgcct cctacagga gaaatgggat attatgaagc acgacgggtg 120
cggcttcgac aaaatagagg ctgaggcgag ggtttctcca ttatggaaaa gccatgcagg 180
gccaacactc taaaatggac atgacagctc tattaacagg taacgacgct ttcaaactca 240
cgccgtcata tttccgttac catatactg aggcctgctc gctcttgatg tcgtccacgc 300
ccaaccgagt ctctgcaaaa ccaaacccta gccgcgcac cagagcagcc gcactgaaaa 360
ccccatggat cgaactgctc cccgcgtcgc tggtgcagag gctgtagatg ctgcacgtgc 420
cgcggctgtt gctgcggt 438

<210> 56692
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-H6

<400> 56692

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nacgaacct tatccccgc atctcttcat gctccgttat gattgcccaa ttccagggtca 180
gggcccacgg ctcccatgtt ctgcttccac agcatctcct cctgctgccg ctccctcgtac 240
ctaatttcag gaatgcgatt catggcttat ttctctcacc tattggataa tggacttttc 300
ctgttttaaa accaatgtac tgtaccccc tcatgttaaa ttttagtac aaattttggt 360
tcgtttcttta c 371

<210> 56693
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H7

<400> 56693

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tgccggcggcg gcggcggaga gaagatgatg ggcgacgtga actggcccct ctcccgttcc 120
ttcctcagcc agaagggcgg cgccgacaag aggaaaatgg aggagcataa accaaaggag 180
cagaggccca aggccaacga gaacaagcct gtgatgaacg aatgagtatc tccagaagct 240
ttgttcaatg tgcaaccaag tccgatgtcc gtttgcctg gttagcttaa aaccaacgct 300
tccaataatc ctattggtgt cttagtttcc cttatagtg ttatttgctc ggcttgaaca 360
tggcaaacgg aaatgaaact tgaactacct atggtactgt catcaatttg agaccccat 420

<210> 56694
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H8

<400> 56694

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 tcgacttcag tactctccaa gtttctagaa tcgacttggt ttttagctat cgttttcatt 180
 ttggtcgttt tgccacctta ttgatgttc gtcccttagc tataatcctt ttgtaatggc 240
 tttactgtga tgcgagggct caccgatgg cgtgtaattt gagcacacca agcttaggct 300
 tcccttgcca aagggtggaa gcctttctat taaaa 335

<210> 56695

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H9

<400> 56695

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 tccgctcgat ctgaagcgc aggagcagca gtcaggcggc catggacgcc agcgcacatcat 120
 gagccggcgg gaaggcgaag aagggcgcgg ccgggcgcaa ggccggcggg ccgaggaaga 180
 agtcggtgac gaggtccgtc aaggccgggc tgcagttccc cgtcggccgc atcgggcggg 240
 atctgaagaa gggccggtac gcgcagcgcg tctgcacggg cgccccgtc tacctggcgc 300
 ccgtcctcga gtacctggcc gccgaggtgc tggagctggc cggcaacgct gccaaggaca 360
 acaagaagac ccgcatcatc ccgcgccacg tgctcctggc catccgcaac ga 412

<210> 56696

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-021-Q1-K1-A1

<400> 56696

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 agatatggag cttgatgatg ccattgacac tgcaatttgg actttggaag aaggatatga 120
 ggggcaaatt tcctccaaca acattgaaat cggaattatt cgagctgac gtgagttcaa 180
 agttttaagc ccagcagaga tcaaggattt cttggaagag gtggagtaag ctgtctgttg 240

atgatactag ttcagacaac aatagcagcg tcacttatga gcagccagcc tgaagattgt 300
 cttgggtttta ttactctgta aactgatttg ctccagcgcc atgtggtggt tacatttgaa 360
 cccnctcaa cgcatactgt agacaatgag ataacgtaag atgaatgctg tatttgacat 420
 actttgcagc ttgtttatgt gatgcacgtt cttgcggac 459

<210> 56697
 <211> 100
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-021-Q1-K1-A10
 <400> 56697

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 tccgcccacg cgtccgcca cgcgttggcg gacgcggggg 100

<210> 56698
 <211> 297
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-021-Q1-K1-A11
 <400> 56698

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 agctgtaaaa gctaagagcg gacttgtttt tatgctacac tgttttccgt tgtatcattg 120
 tggtttgttt gtccagaggt gtgtagaaat actcaacatg gaattgtgat gcttaaattg 180
 ttgagcttga caggacatta tatttgacca ccaactcgcc atggctctgga agttgtaata 240
 agagtgatca tgaaacaggg cataaatcta ttgctagtac ttttttagtg gaaaccc 297

<210> 56699
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-021-Q1-K1-A2
 <400> 56699

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aggactagga gggtgacgag tgatgtagga cggatgaaac tgtgtccgag tgtttgcaat 120
cagggaaaaa atctcgtcgt tgtcggccta accgggtttt ctccaaggac tttctagatg 180
cagtagatta gtgccgtctt ctgagtagtt tccttgcaag tgtcgtcccg tccctggagt 240
gaggcagttt agtttgtagt ttcttcgctt catcggcact cgaccgttgt tggattggga 300
tgtttagcct gcagtctgta cttgccccaa gcacttatgg tgctgtttt aaatctcaga 360
tcacaatata cgtttgtttt aaa 383

<210> 56700

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-A3

<400> 56700

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acctaaatta aattaat 77

<210> 56701

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-A9

<400> 56701

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gggtcagcag atggaaaggg gggggcttct tagaaggga aaaccttggc ttggaacacc 120
agcaatggga acaagctgat cctctacggg ctctacaagc aagccacggt tggagatgtg 180
aataccgatc gtgcgggcat attctaccaa aagggcagag ccaagtggga tgcttgga 240
gctgttgaaa gcaaactgaa tgatgaagg atgaatgact acattac 287

<210> 56702

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B11

<400> 56702

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cggccatctg gttctggatg acgcggcagt cgcgcaagcc ctctgtccac gccgtgatga 120

ccggcgactg gagggcctcc gccaccgacc gcgccgcggg gaggctcccc ggatacggcc 180

tgaccacgaa catcatcaac ggtggtctag agtgcggcga ggaccgctcc accgacggcg 240

ccaaagccgc caaggaccgg gtcggctact acaagaggta ctgcggtatg ctcgagtggt 300

ggtacgggga caacatggca tgcgggagcc agaagcctta cggaggatga tgacactagt 360

agctgatcta tggttgctgc aatgcaagcc ttcacgtgtg tttgcctctc tacctaaaga 420

ataaatcaag cttgcagcaa acctaccttc ggcgtgtgtc tacttgctta tcat 474

<210> 56703

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B2

<400> 56703

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gctgctatgg tggcgggcgc cgtgacggca gttatcgagg cggaggcggc tacggcggtc 120

agcgctaggg tgggtggcga ggctactgat gcggtggtct ctacggtgag tgacgcgagg 180

gtggtggtgg cggctacggc gaccagtgtc gatgctgtag gtgactgatg tgtgagccca 240

tactggcttc tgacgagtta tcttatctat ctatagtatc gtgataccga acactattgt 300

caccgtgtta gtagccgac tacctttgga ttatgtgttg gtaccctga t 351

<210> 56704

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B3

<400> 56704

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ttttaagtct tttgaactta gttaggtatt tgggtggttg taaatgtagc aaccaactcg 120

tcgttattat ttatttggag ttatggtttg cgtttttttt gtgtgtgtgt gtgtgtgcag 180
gaaatctgtt gccaaagctcc ttttgccccg acgttttcac cataacatct tcatcgttct 240
cagcgttatc actggattcc agaagtga aaatagcatta atcagagtca taccatgaca 300
ttgacttata aatgggctgc ggatatctgt acagtacaag ttgaagcact tttgaagccc 360
tcttctgtta cacacgctag cagtgttgta taatgcttgt cttctgcttg cattttgact 420
ccaaacttgc agttttgctt tttgtaa 447

<210> 56705
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B4

<400> 56705
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accgggaaat atcttcaact cttgaagtgc actgttgccg aagtatagtt actttcagct 180
ggaaaggatt tacagactat tctgactggg acaattgctg taaattgtta taggatttgc 240
aatgtgatgc ctattttttt aatagagaac aaatggagtg agataa 286

<210> 56706
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B5

<400> 56706
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gtgatgaaga gcgacaaggg caccctgagc tacgagaccg gcctcaagac gctgcgcaac 120
tccaagggaa agctgatcat catcgcaaac aactgccctc cacttaggaa gtctgagatt 180
gagtactacg ccatgctggc caaagttagc gtgcaccatt tccacggaaa caatgttgat 240
cttggcactg cctgccgcaa gtactacagg gtgtgctgcc tcagtatcat cgaccaggt 300
gactcggaca tcatcagtac caccctggc acccaatgag ccagccccgg aaccatttgc 360

agctgcttcg cttttctcaa aatgagatga gatgtatcgc tccggaccta tgtccggttc 420
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<210> 56707
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-021-Q1-K1-C10

<400> 56707

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 cgagcgcctt cctgctcttc ctcgctactcc tctgttgccg gtccttcgcg atcggaggag 240
 cagccatggc cggccacgtc ctcggcggcg tgaaggagaa ccagcccgcg gccaacagcg 300
 ccgagtcoga cgggctcggc cgcttcgccc tcnacgagca caacaggccc gagaacgcgc 360
 tgctggagtt cgt 373

<210> 56708
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-C3

<400> 56708

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 ttttcggccg cagcgatggt gtacgtggat tcctgggacg agttcgtgga gcggtcgctg 180
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 gggaagctcg tgctcaaggt cactgatgac cgcgagtgc tgaattcaa gacagatcaa 300
 gctcaggacg catagaagat ggagaagctc aacaacatct tttttgctct gatgactcgt 360
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<210> 56709
 <211> 475
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-021-Q1-K1-C4

 <400> 56709

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 acacatcatg aggaaatgta tgactacaca catattgctg gttgggctgg actccaccat 120
 ggtcgacaca ggcattggtgc tcgagctact tcatctggtc tcagaataaa tctgcttttg 180
 tgggtgccgga gctctgtgtt cagagagatg aagaaatacc agaaggattt tccgagctgg 240
 tgtggtgaat gccagcgcga aaagagggaa aggcagagtc agtgtgttaa agcaacgaag 300
 atggcctttc tcaggggttc tggaggtgca gcgatttaat ttgtacgtag gtcatttatg 360
 ttatatactg ttttgcgtca tactgaactt catcgtttag gacttgacag gggcattgta 420
 tcgatggcca gctttgtgct aatgcgttta ttggtgcgat cccaagtgtg tgtaa 475

<210> 56710
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-021-Q1-K1-D4

 <400> 56710

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 ggacgagcgt cttcctgtgg gggggaatgc cttgtgtgcc cacgcctagg ttctctgctg 120
 aatcttccat ctctcttccc ttcaagactg ctactgctg cactgctctg ttatctgaac 180
 ccagaacttt gtgtactcct gtaccgagct gtgtgtatgt tttttttttt cttccatcgt 240
 gtttgttgca agggttcccg tatcctttta tgcgttgnga tcgtggcang aaaaggcaga 300
 tatcatgtgg aaaccgtggg ttatctatca gcttggattt tcaatccaag gtggaccgca 360
 ttcaagattt tttctc 376

<210> 56711
 <211> 443
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-D7

<400> 56711

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catttttctc tggttactct acttgctcag atggtagtgt tatgtggggc cagaagaaca 120
ggacgatcca gaggatttgg ttttgtttct ttcaggaacc agcaggatgc tcaaagtgcg 180
ataaatgact tgaatggtgt gttctctagt tccatgtttc taacttatgt tccattttga 240
agtcccagat gtttcaaaaa gtgctagcag ctagacgtgc ctagcaacct aggtggtgct 300
caggcggtgc ttgacatttg tactttctat ggacagtatg ccatgttgaa taaagtattt 360
ttggcatgac aaatataatt tatatatatc tttttgttac ctatttgaat acgtatgaaa 420
aatgggcggc cgtttttagag gat 443

<210> 56712

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E1

<400> 56712

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tcttgaaact aatggaacag ggctacgcgt acgtgccgtg aggcgtgtgc atgtcaggaa 120
tgggcccgcca tgtttctttc gaccaagctg tagcgtggaa ggtgctcggc gaggatagca 180
acatccactg cctggcggtc tgcttcgtca actggtcctt cgtgtgactg aagtccaacc 240
cgtcgggtgg ttatggcgag ctgaccatt ttttttttgt atggaaaatc atcagctgtg 300
acaaaaggca tatgttgcag gcactagttg aagaaactgg tccaattgct tttttggtca 360
aaaaaaaaa aatttataat tataatttat ttt 393

<210> 56713

<211> 374

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-021-Q1-K1-E11

<400> 56713

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aatgaactg anggagcagg ccaaagctgc tgctcaggca ggtcttgagg agatggatgc 120
tgactaagaa acaggacgat ttgccagac ttggtgtttt tgggtgctgtt gaaatctccg 180
atcccttttg ggtgaccac tggacatggc caatttgtca caatttatta ttttgaccca 240
tgtcatgtga aactcctttc gttgaagtct ggtatctaga ttgacttgta tcagagctgt 300
ggtttacgca gactggattc tggagtactg gactgggtgt gtgtatgtcg gaactgtgca 360
tctgactttt agct 374

<210> 56714

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E12

<400> 56714

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actcgacagg ctgcagctac gacccagacc aggggctaga gcaacgagaa cgaatgagct 120
agtagccgac cgcgtatctc catcatggcc gagctggtcg cgaggcacgg acacgagctg 180
cagcgggaca gccagagcac cggcaggcgc atcgcggtgg gctgcatgcc ataccgctg 240
cgggtgcgact gcaagctgga ggtgctcgcg atcacatccc agaaggggca cggcatgatg 300
ttccacaagg gctgatgcga ggtggacgag tccatggac 339

<210> 56715

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E2

<400> 56715

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gagtctgaga agtgagagaa ataaatgaca agtgctgttt accgctcacc caattttaac 120
caatgccacg gtgatacgat tatctctgct aaagggataa ttgtttcaac taaaccaaac 180

accacagttg gaggtcaaat ccttggaagg caatattgtg aagttattgt aatttgtgtg 240
ctaaaacgag atacagtttt gcctcgccct ggagtgatgt cgttgtggtg cttttgtgac 300
tgatcatctc tggagctttt gtgaatgac tagctagata tctgtaaag atctagttgt 360
gaatgatatt ataattgtga tgctttt 387

<210> 56716
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E3

<400> 56716

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aagcaaccgg agtaacactg taacagcgaa atatttgggg acaaaagggt atactgtgtg 120
tgagcaaaaa ggggtgtattg ccttgtgctg atgttggcgc acttcagct gaaaaaaaaa 180
aaaaaaaaa aacaaaaat 199

<210> 56717
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-021-Q1-K1-E4

<400> 56717

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ccttcgtgtc cgtgtcgccg ccgccggcgc cgctcagctc cgatggcgcg tcgcccggcg 120
ctgcggatcg agggggccag gcagctgacg gggcgggtgg tgacgaccaa ggcgaacaag 180
acggtcggng tggaggtggt gcgcctggt ccacacccca tgtacaagcg ccgggagcgc 240
atcaagaaga agtaccaggc gcacgacccc gacaaccagt tcaaggtcgg cgacgtcgctc 300
gagctccaac cctaccgtcc catctccaag accaagcact tctcgccat cccgctcccg 360
ccccgcgaca ctgcgccat gtctcagctc ctacc 395

<210> 56718

<211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-021-Q1-K1-E7

 <400> 56718

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 tttttttttt tttttttttt tttttttttt ttttaaaaaa accttttttg aaaaaatttt 120
 aatttttggg aaaaattcct tttggaaaaa ttttataaaa aaatcaaaaa tttcttggaa 180
 atgaaaaatt tttaactttg gaacttttaa agccaattta aaaaagggga aaactgggtg 240
 gtttttcccc ttttatcccc 260

<210> 56719
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-021-Q1-K1-F1

 <400> 56719

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 tggctgttgt tgctgttaca tctgactgga ctgtgggatt agcgacgagt acgtgactga 120
 aaagggtcca tttgatgagg cgatttgaag aacggagtat ataaacctgt acataactct 180
 aggtcatgca atgcaagtgg ttgcgacgt ctgagtatgt gcagggtcag cttttatgtt 240
 gttggtactt gggatgatgg tagcaggcat atgcttgggt ag 282

<210> 56720
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-021-Q1-K1-F4

 <400> 56720

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 tcacaaggaa catgcttgca aatgaggggt tccgttcttt ctacaagggt ttgtctgccg 120
 gattgctgag gcaagcgacg tacacgactg ctgctcttgg atcctttagg gttctaacta 180

acaaagcagt tgaaaagaat gaagggaagc cattgcctct aattcagaaa gcttttattg 240
 gtctgactgc tggagcaatt ggtgcttggt ttggtagtcc tgctgatctg gcactcatta 300
 gaatgcaagc cgactcgacc ctgccagctg cacaacgacg caactataag aatgctttcc 360
 atgcactcta ccgtatcagt gctgatgagg gagtccttgc gctttggaag gtgcaagtcc 420
 aacttgtgtg agagctatgg cactcaatat gggatatgc 458

<210> 56721
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-F7

<400> 56721

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 ggattatcca gatgagcgtg tgttggggct atagcttata cgattagcgg atgtgggtga 120
 agaggcatgc acgaatctgc ttccaaatgt tgtgtgtgaa tacttgtaca atctatctga 180
 aatgttcaca aaattctata ccaactgtca ggtggtcggc tcaccgtagg agacgagccg 240
 actgttgctt tgccaagcga ctgctgttgt catgcgacag tgcttcaatc tgctagggat 300
 caccacagtc tacaagctgt gatcggctgc atgtttgaag tttgatttat acattcaaca 360
 tcgctttac 369

<210> 56722
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-G1

<400> 56722

aatttccggg tcgaccgacg cgtgcgcca cgcgtgcgcg cacacctaca ttgcttcac 60
 ttttgaagaa taccgatctt tacagggatt ttgttactct tccacggaca atcactaact 120
 acacaacccc ttctacacct accaagaaca gcttgtgtac aagatcat 168

<210> 56723
 <211> 418
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-021-Q1-K1-G2

<400> 56723

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gaggcttgcc aagaagtacc atgctttctt ggcatgagag gccatcatgg agcagagtcc 120
ccgtctcctt ggtcctggtc tcaacaaggc aggcaagttc cggaccctgg ttactcacca 180
ggaatccctc gaatccaagg tgaacgagac taaggcaacc gtcaagttcc agtcaagaa 240
ggtcctttgc atgggcgtcg ccgtcggcaa cttggcgatg gaggagaagc agatccagca 300
gaacatccag atgagcgtga acttccttgt ttccttctg aagaagaact ggcagaatgt 360
gagatgcctc tacgtcaaga gcaccatggn gaagccatac aggggtgttct aagtatgc 418

<210> 56724

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-G4

<400> 56724

ggaattcccg ggtcgacgca cgcgtgccc cagcgtccg agcagatcag gccagtttgc 60
aagagtgccg tgatcacggt cgatcaggat aagtgggctg gggcgaaggc aactgacaag 120
gtaatgagct tccaccgca cgcaaaaat gcaaactttt tgatcaagga gggtgacaag 180
gtgaggaagc tcgcgtgca gtacgtcgag gcatctcagc agaagatcag ttgagaccct 240
ttaccggatt tgaaaaatgt gatcacaata gctgccattg tttcctcgtg ctggagcaag 300
caatccatgt aaatgactgg gtgtgcggat cacttggatca acaaccgtgt acaggccacc 360
ctttccgtaa atacatctgc ttatgcattt tgac 394

<210> 56725

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-G5

<400> 56725

taccggttct gaattcccgg ctgcagcac gcgtccgaaa aaaataccaa aaataaaaaa 60
 aaaaattttc aaaaaaaaaa aaaaaaaaaa agaacaaggt caaaaaaaaa aagaggaaaa 120
 gaacaaacaa ctataaaaca tcatcactct aaacactcac gactctcaat gacaatctat 180
 ctaatcatat acagaaaata ttttcaacaa cctcagccac cctctactaa 230

<210> 56726

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-G9

<400> 56726

attcccgggt cgacgcacgc gtccggagga gctgagagcc ctggagtcaa agtatgtcgg 60
 cgctgaaggt tacagagaaa tggggcgaaa atgatcggtg gctgacaagc gggcgaaggt 120
 tgaggctctg aggagccgtg ccgacgagga gaagatcaaa tacgagaaga gcatcgggggt 180
 caccagagca atgaccctga ataacctgca gactggcttg cctaacgttt tccaggcgat 240
 gacgggcttc gccagcgtgt gcatggaggc atttgagtcg gtgtacaact tcaagcggag 300
 ctcggaacccg aagaggctgc tgacctgaag caatagtgga taaaatggat acagtcctag 360
 ggtttttagta acaatgata 379

<210> 56727

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-H1

<400> 56727

gaattcccgg gtcgaccgac gcgggcgccc acgcgttcgt agcacctctc attgcttcac 60
 tgattcatca actacgatta ccagagtggt ggtggcgaca caatcatggc gctgcccgtc 120
 cagccaatca tccgtgcccc agctcacttt cacgggttagc atgtcatcct ccagcaacct 180
 aatacccttg ccctaaagtt ctgtgcctac atctacgtac cgatggatct atcctttgta 240
 cccaagcgcc tgtaaacac atacaccgta atgtacacaa atatctacat tattttct 297

<210> 56728
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-H10

<400> 56728

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 acgaatccat cgccatggcg tctgggtctcg ttgcggcggc ggcttgcctc tcttccctct 120
 cttcagcgtc cccctctgct cgcctaattct ctgcgccggg ccttgccggt gccgcagacg 180
 gccatgggtc tgcgaaggtg cccttgtgga aagatccgtt gagcccgagc aagtggaagg 240
 aagagcactt tgttctagca agcctctcaa tgtggggggg tattttttat ggtggttaca 300
 agcttttttag tggaaagaag gaagccaaga ctgatgcggg atcaccacag gcataggtgg 360
 cggagatgga gttgtaccca tatctgaggc ccggcaacaa tgttaaaata aaggaatgct 420
 tta 423

<210> 56729
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-H4

<400> 56729

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 tctcggctat atactgtctt ctctgcgctt gggttgctgc gtagcgtgaa gcagaattta 120
 aagattgcat cttttttata tatatagaat cgctaaatta tgaaaacgct atgtgtgttc 180
 tcctgtgcaa acaggtaccg cgggtgttgg tttcctgcag ttctgcaacc tgaacagctt 240
 ccgaacaaaa ttcatactgt ggttctcttt gtctatgggt ttgtcgggtc cacagtatct 300
 caacgagtac ac 312

<210> 56730
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-H6

<400> 56730

actcggttct gaattccccg ttcgacgcac tctttcgaca acacatactc tcaatcatat 60

ttcgatttca acatctacta a 81

<210> 56731

<211> 290

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-022-Q1-K1-A12

<400> 56731

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cggaaagcaa agaaccagac acggggggcca aggcgggagg cgcgacgcga agcccgggca 120

cggcagaacg cggcgccgaa gacanggcaa gggcgcccng agaacgngga ggcagcgcag 180

aaggcccngc gggngcgcgc aaaggccaac gcggggggccc agcacggncg cnacaccggn 240

gagggcgaga gcgangaagc caagaaaggc angacccaga agggcnacac 290

<210> 56732

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-A2

<400> 56732

aattccccggg tcgacccacg cgtacgtctg atagcgagag caaaaaaaaa aaaaattaga 60

ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaatt aaaaaaggga aaagaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaatac tataatataa 180

attaaaataa attaaaatat ataaataaaa aaataataaa attaaataa attaaattta 240

taat 244

<210> 56733

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-A6

<400> 56733

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cacttaattt aaattaattg gcggtttttt taaaacttct taattggaaa aaccttgttt 120
ttaccaaaatt taatcctttt gaataaaatc cctttttccc aagttggctt ataacaaaaa 180
aggccctaac cattctcctt tccaaaaagt tgcccaccct taatggcaaa tggaaccccc 240
cttt 244

<210> 56734

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-B2

<400> 56734

cggaattccc gggtcgaccg acgcgtccgg tgggtcggaa cgattcgtaa tcggattgct 60
tctctaattt atataaactt tgattaggtg gaacgattcc gggtgcaatg cgacacaaac 120
gaacaagtcc gacacaaacg aacaaggcct aagccttctg tttaacagtg gtcagtgggg 180
gaggctgcct cggcgtcctt tggagtggca tgtagactct ggaagggctg gcgctgtggg 240
gaatgacgtg ttctgtggaa agccttagct ctgctttggc tggaatgcta ccttgtgtat 300
aatggaaaag taacatgctg gattaagct 329

<210> 56735

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-C3

<400> 56735

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aagggggcga cgaggcaggc ggagcgggag gcggtacag cggcagcaga tctcacggaa 120
tggcggcgaa ggcaatctcg agccccgtgc cgggtggagt gtacccgacg ctggccgtcg 180
tcatggtatc cgtaggcctc atgttcaccg cctccttctt catttatgaa gcaacttcac 240

cccggaggag ccgtagcctg tcaaaggaga tcgcaacagc agttgttgct tctgttttct 300
 tgggcttttg gtctctgttc gtgcttcttg caagtgggtg ttatgtctga tgactggcta 360
 tgggccgtgt gtgcttgtgt tctgcatccc gagttgtaga cttgggttatg acagatcctc 420
 aaagctgttg tcctaacgaa tatagagcat ttgaacttat tctagaacga 470

<210> 56736
 <211> 172
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-022-Q1-K1-C6
 <400> 56736

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 aacaaaaaaaa aataataaca cgtcatgtat atttataacg gagctctgct ccactcatat 120
 acaacacaat catatatctc ttaactactt ctatccatat ctcaaaataa at 172

<210> 56737
 <211> 466
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-022-Q1-K1-D3
 <400> 56737

aattcccggc tcgacgcacg cgtccgcgcc gcaccagcgc cagcccgcgc cgtggtcaga 60
 tggaggtcct tcaccgtgcg cgcctgtctc ggcaaggccg ccgggagcgc gccgccgtgg 120
 caatggctgc cagcgccctg cttgccggcg gtgccatggc ccatgaggtg ctgctgggcg 180
 caggcgacag cgggctcgtc ttcgagccca gccagtacac cgtcaaggcc ggcgacacca 240
 tcacattcaa gaacaacgcc ggctatccgc acaacgtcgt cttcgacgaa gactaagtgc 300
 cgagcggcgt cgacgccacc aagatctcgc aggaagagta cctcaacgcg ccaggcgaga 360
 cctacttcgt cacccttacc gtgccgggaa cctacggctt atactgcgaa ccgtattaag 420
 gagcctgaat gtgtcggaag atcaccgtca actaattaag ctagct 466

<210> 56738
 <211> 308
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-022-Q1-K1-E11

<400> 56738

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ctcgnaaaaa agctagagac gngngggang nggggggana gnagcagggg gnnatatata 120

ttcagttgtg tgtttactat ttaatgcgag gagtgaaaat aatagtacct gtaccagtct 180

gtgtatgggtt attacttcca aaaaaaaaaa aaaatttata aatttataaa aataaaaaaaaa 240

aaaaaaataa aatataaaaa taaatataaa agaaaaatta aaaaaaaaat taaattaaat 300

aataaatt 308

<210> 56739

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-E3

<400> 56739

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aataaaaaaaaa aaaaaaaaaa aaaaaagaa aagttaaaaa agaaaagggg gaaagaaaaa 120

aggacagccg ctctaaagga tccaagctta cttacccttg catacaacgg gatagctctt 180

ttataggtcc aacctaaatt caatt 205

<210> 56740

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-E4

<400> 56740

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aagatgagcc gtggtggtag tgccggtggt ggtcaaagtt ctctgggtta tctctttgga 180

agcggtgagc cctccaaacc agcagtggca ccagctgcaa gtgctccacc tgttgagaaa 240

ccatctgctg caaagactga tgcggccaag catgttgctg ctggggttac cagccaaacc 300
aataactacc acagggctga tggtcagaac actggcaact tccttactga ccgtccttca 360
accaaggtcc acgctgctcc tggcgggtggc tcttccctgg gctacctgtt cggcggcaac 420
tgatgcccggt gctgggtgcgc tcaccaaagt ta 452

<210> 56741
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-E8

<400> 56741

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ccgcttcgca tcgcggacct agccccggcg ccgatgcacg ggctcggagct gcgcgtggct 120
taccagggcg tgcccgcgcg gtacagcgag aaggcggccg ggaaggcgta cccgggctgc 180
gacgccatcc cctgcgacca gttcgaggtg gcgttcagg ccgtggagct gtggatcgcc 240
gaccgcgcgc tgctccccgt ggagaactcg ctgggcggca gcatccaccg caactacgac 300
ctgctgctcc ggcaccggct ccacatcgtc ggggaggtgc agtccccgt gcaccactgc 360
ctgctggcgc tgccgggggt gcgcaaggag tgctgaccc gcgtgatcag ccaccgcgag 420
gcgctggcgc attgcgagca cacgctcaca ggcat 455

<210> 56742
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-022-Q1-K1-F10

<400> 56742

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accataggta tgagaagagg cactccaaca ttctgtctca catctcccga tgcttccgtg 120
tgaaggaagg tgaccatgtc atcattggcc agtgcaggcc cctgtcaaaa actgtgaggt 180
tcaatgtcgt taaagtcatt ccagctggat ccgcagctgc tggaaagaag gccttcacag 240

cagcctgagt ttatagacta tgttccatga gtagtctata gaatgatgtc tttttaattc 300
 aaaagaaatc tctcttctag gctggtgctt ttcgactata atttggagat tgttccgtgt 360
 ccgtgcaatc atctgaacat gtgactactt attgtacctt gtcgtgcaaa gttttgctaa 420
 gatctctagt gtttcatggc t 441

<210> 56743
 <211> 285
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-022-Q1-K1-F11
 <400> 56743

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 gccgagggca gggaggagaa ggacggacag nnggggggac gcagcgcagg agaggaacaa 120
 gggacncagg agcnagggng angngagcng aaaaaaggca ngngacgcaa cgcaagagca 180
 gcggagcnnn nccccagcn ncnnaaacc cccacaccag agaacaaagg agggcaaacg 240
 aacnaggagg cngnanngan ccancagcag cncncccggn ccgcg 285

<210> 56744
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-022-Q1-K1-G12
 <400> 56744

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 ggcgccgacg cagccgaaga cgggccgcag cgggggcac cacaagggcc anggcgacac 120
 caagcgcgag ctgccacngc gcccggccca ccgcaagggg aaagcaacga agagggngac 180
 caaggncagg ggcccaaaca gagagggngc cggctgggca ccgaaagaga agcggancac 240
 cgagcnnnag aaggngggca aggacaagcg cgcncngaag cngccaaga gaaagcnngg 300
 aaccacaag agggcaaaga agaagagaga ggagaagaag ggcgagcaca ggaagaggag 360
 aacggccgag acgcaca 377

<210> 56745
 <211> 56
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-022-Q1-K1-G3

 <400> 56745

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<210> 56746
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-022-Q1-K1-G4

 <400> 56746

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 cgtcggatgt tgagtaccgc tgcttcgctg gcgggctcgc ctggggccacg gacgaccact 120
 ccctccacaa cgccttcagc acctacggcg aggtcctcga gtccaagatc atcctcgatc 180
 gggagacgca gaggtcccgc ggcttcgggt tcgtcacctt ctccacggag gaggcgatgc 240
 ggaacgccat cgagggcatg aacggcaagg agctggacgg ccgcaacatc accgtcaacg 300
 agggccagtc ccgcggcggc cgtggaggcg gcggcggcgg cgggtacggt ggtggccgtg 360
 gaagctgcgg ctacggcggg gccgggcgcc gtgatggcgg cggcggctac ggcggtggcg 420
 gcggctacgg tggtagggcg ngcggctacg gtggtggtgg c 461

<210> 56747
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-022-Q1-K1-G6

 <400> 56747

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 gcagcacgcc gtgatgctga cctgccgaga atccaggctt gcgtcgacca tcgggctgcg 120
 gctgtggcag gccggagtcg tcgtgtatct agacatccgg aggtggatct gatgagctga 180

aactgaagct gcacctgagc cgctcagctg ccgttgatag atgccctctg tttgctctgt 240
 tttacgatcc ataggtgatg cattttattgg ctgaggggtc atttacaggt ctgagacaga 300
 gatgaggatg tgtaatacta tcaatgtgac gacgggagtt gtgaatatgc tcatataagc 360
 agatcacatt cgtgcgatgc caaatgacat ggtggac 397

<210> 56748
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-022-Q1-K1-H11
 <400> 56748

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 aggaaaaaaaaa aaaagaaaaa gaaaaggaaa acaggagaaa agaaaaacag agaacagggc 120
 cgaagaaaac aaaaacaaaa aaaaaaggaa aaagaaaaaa aaaaaaagg ggcccccccc 180
 aaacgaaccc aggccagcgc ccccggcccg ccaagcaaaa cgagcgggaa agggaacccc 240
 aaacacaaaac cacgggcccc gcggnaaaca aacagccacc gggaaaaccc cggccgaacc 300
 ca 302

<210> 56749
 <211> 179
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-022-Q1-K1-H12
 <400> 56749

taccggtccg gaatagccgg ggcgagccac gcgtccgaaa aaaaaaaaaa aaaaaagaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggaaa aaaaaaaaaa aaaaaaaga 120
 aaaaagaaaa aaaaaaaaaa aaaaaagggg gggaacaaaa aaagggaaaa agagaaaaag 179

<210> 56750
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-H3

<400> 56750

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gggttgccat tgattaacgg gggtgagctt tgtagtaaca tctgaagagt tgagagtttc 120
cttgatggt tgaaccacca gaatacatac aagtttgagt agacaatgct tctatccttg 180
taccctcgtg gagtctttgt gaattgcctc gtaggaattt tggtttttac atgatcttga 240
ggcataaggt tgtaaaatta gtcgaaaatc tgtatctggt gtaaagggca tggacttttg 300
accactgaaa tggctgtcaa gctttcgtat actgcaatgt atgctgttca aaagtcaact 360
attcaaatat tcgattattc cttg 384

<210> 56751

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-H4

<400> 56751

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tctgcccac tccggtgagc gagagtgtgg tgacgacaga atcatggcgc tgcccgtggg 120
gccaatcgtc ggtgcgcgag ctccccttcg ggggtgagcat gtcaccgtcg agcgacctct 180
tggcgggtgcc ctagtgcctt gtgcgtggcg ttatgtaccg gtggctgcgt tgtttctacc 240
cagtcgtctg caaacaagat tagcaagaat ggacgaaatg gtttgagttg gttctctgag 300
caggttgaca agtgaggacc tctatgaagc tgatgctaac atttacagag caaaaggatc 360
tatattagag cagtataaat ggtggatgtg aggcctacat tggttgtgag cttgaaaggg 420
aattttgttg ttggctggtg aggttctttt gactcctgat g 461

<210> 56752

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-H8

<400> 56752

attccccggt cgacgcactc atcctaccac tegtacgacc actcttttcta cgattttctac 60
atctactaat acctatacgt caaatgtata ttcaacaatg ggccatgacc ctcatcccaa 120
tcatcatecc acctgcttca ctctctacta atcctaatac catataaaca acctatttctc 180
ataaaccatt tcacacttac tcatcatctc ttctcatctt atcattttatc ctctcccata 240
ctaccataaa catcattatc cagtatgaca ttacatgata ttaactatct gtataacatt 300
ttatccattt act 313

<210> 56753
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-A1

<400> 56753
cgaattcccc ggtcgaccga cgcgtacgcc cactcatcca cccacattga acatgagata 60
atactatctc tccatatact gggtaggggt aaacttaaaa gggcggtggt aaatataact 120
atttaacgat attaccatct attattacga taaatactat tgaaccaact gctgttgtga 180
cctatgagat gtccatttaa tcctataatg caactgtcaa catgatgttt a 231

<210> 56754
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-A2

<400> 56754
accggnccga attccccggt cgaccgacgc gtccggccga taacttgccc gaggagctgt 60
cagaaatcct aacatcctgc tggaaggaag acccaaggga cagaccaaac ttgacacaga 120
taatacagat gtcctacac tacctatcca ccttttcgcc acaagagacc ttggcggggc 180
cccgccgcac gttcagctcg gagaacacaa tcctgcccc agagtctccc gggacaagct 240
cgctgatggc ttcgcggggc gacctcggcg acacgcccc gggcaagaag gaagacaagc 300
cgaggggctt cttcttctgt ttcagcgagt gctattagca cgagcccccc caaaggggga 360
acactccgag aagcttgcaa atactgaacg aacaccgtct cccccccagc cccgatgccc 420

tgcgactcaa gccatg

436

<210> 56755
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-A4

<400> 56755

cggaattccc gggtcgaccg acgcgtgcgc ggacgcgtgg ggagaaaatg ggaatgcatg 60
agatgaggggt tctggttgct gaaaggctga ggatgagcat atacatcaag ggagaagact 120
tggaagtgga gcanaattgc attggcattt tgctggaagg gttcttgaag atcgagaacc 180
tgactctcat cacgccccca gcgttgcttc tgccatggaa tgctgacttg agcttattcg 240
gtctcgagtc ctcagactac tgccatactg cacgcaggta tcaggtggaa gccagagcgc 300
ggatcatctt cttcgacgag gcagaggccg cccatcttca tgttcagaca agtgcgtcgc 360
tgccccaagg tgagccagca cggagcatga gcaaggagca cagcg 405

<210> 56756
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-B3

<400> 56756

ctcgcatcta cctctagcac attgtacgag ggaaagggtc agaggtagta caatgggtat 60
gtgccactca tcaaagaagt cggcgggttaa acctcttttt cttttggggg ttgggggaag 120
attcattttg agatgaaaat aattcctttg cagaagatac atacaaattt ggactgggaa 180
ttttagcagt ctaaccagat acatctggat agatattgta aaagagatac agctggatca 240
atgagcattc tttctttcac atttaaaac 269

<210> 56757
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-B6

<400> 56757

accggnccgg aatacccggg tcgaccgacg cgcccgga gcaacagata cacaagctgc 60
ttcagttcaa tcaagaacaa caaccctgc acgaggagag gataggaggc tcaccggctcg 120
cgaccaaatt ctcccagaga cggtcggaaa tgaggagcca agcgtgctc ttcttcacga 180
tcgccccttct caccgtgctc gcgcgatcca tcaacaggca ccaccaccac caccactccc 240
acgttcaaag catagggcag tgagcatcat catgatgagg aggaggagga ggtgagctgg 300
cgagccgggc gccggcgccg gcgcgcgctt ggccgtgctg cgacagctgc ggccgctgca 360
ccaggctc 367

<210> 56758
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-B8

<400> 56758

cacggaacct gtggatgtgg ttccgtatcg tactgttgga tctgtctgtc gtgtgctagt 60
agtgtgcctg ttgtcacctg tgcaaagggc ggcgtaaagt ttgcgttttg cttcgtcttc 120
tggggaataa acagagttga cagtactcgg ctcaaaaagt tcagatcgac tcagttgttg 180
ttgttttttt ttttttgctt tgatttttca tctcgtcag ctcgagttag caggttctgt 240
tgttaggttg cctgatcttg gttatcaccc gacgtaatga aacaatggaa cgcagtgcnc 300
nnnnnaaaaa 310

<210> 56759
<211> 294
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-C11

<400> 56759

ccggaattcc cgggtcgacc cacgcgtgcg cccacgcgtn cgctcgagcac attgtacgag 60

ggaaagggttc agaggtagta gaatatatat atgaccggcc tcaaaaaaag taacttgтта 120
 gtttcttttt cttttggggg ttgggggaag attcattttg agatgaaaat aatttctttg 180
 cagaagttac ataccaaatt tgactgggaa ttttagcagt ctaaccagat acatttggat 240
 agatattgta aaaaaaatac aattggatca attaacattt tttcttttag attt 294

<210> 56760
 <211> 321
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-C6

<400> 56760

accggnccgg aattcccggg tcgaccgacg cgtacgcca aatctactca ttgtatatac 60
 tttctattac tgatcgtcca gcattaaaat tgaggactgt taatctagaa gcagcgtctg 120
 gctacaaaaa acatttttct ttgatcatta caaaaacata tctatccaaa tttttatata 180
 ttaatttacc gagccaccat catttttgc ttagacactc taatatgcta tcttgaaacg 240
 tctgtctccc tattgtctta tcaattcaat ccaatcaaat accatttttt cttttcaatt 300
 ttatcacatg aacttactac a 321

<210> 56761
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-C8

<400> 56761

ccggnccgga attcccgggt cgaccgacgc gtccgcccgc acctcctgct agcacagggt 60
 gcaagggaaa ggatgacaga caggacaatc gagagcggcc catcatgaag ggcggcgggg 120
 ggtacacaac tgtatctgtc gaccgtgtgc ggaacagggt attctgacat gactataaaa 180
 gcgttgccga gggacgaacc tacatggact gggcatgcaa gcactgtaac cagacacatt 240
 cgcatagatg ataggaacga gtcagaact ggtcaatgag gatcaagcct atgcaatcca 300
 ggggcatgct gtccttagg gcgaacaacc taactaatcc tactttacct actgttacct 360

gc

362

<210> 56762
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-D12

<400> 56762

gaattcccgg gtcgaccac gcgtacggtc aacgctaata cactggacat tctacatgtg 60
acatatcca 70

<210> 56763
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-D6

<400> 56763

accggnccgg aattccgagg gtcgaccgca gcgtacgca gcccttccc aaccgtcaat 60
aatgttgagg gttttgacat ctccgaggcg ctgagggttg tgcaaggcaa gcaggcgggc 120
agtccattct tcgcttgagg gccatggcgc ctggtgtaac caactggtag cgtgtgagga 180
ggcttcggtt tattgactag tgcataattc tgggcaaac agatgcgttt ggttgccc 238

<210> 56764
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-D8

<400> 56764

gtccaccaag gcggttcgca tagacagcgc cagcaaccaa aaacgtgaag ggttctaaaa 60
gaaggggggg agggaaaaaa acggtcggcc gttttaagg atccaagctt aagtacgcat 120
ccattcaacc tcatacttct tttatagcgc cacctaaatt aaatccaccg gccgtttaat 180
aacaacgctc 190

<210> 56765
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-E10

 <400> 56765

 cggaattccc gggtcgaccc acgcgtacgg aagaacttgg tcgtccgacc aaaacccatg 60
 ccaagcttct accaaaagga accccaacca ggggtggaac ttaagaaggt gcctccaact 120
 cgtgccaaagt caccaaaatt gaccgggaga aagagctgca gtgaaacccc tcatacacca 180
 gagggaggaa atggcagtgc agtatgctgc cggttgcatc gccacagcat tgggaacgcc 240
 agagatgtta gcagcaaggc acaatgttct ccaaagagcg cctcaaaggc tggatcagct 300
 actagatcca gggtcaccaa atccagngaa gacctgaagg ctttcgtgaa gaaagtggga 360
 ctgccaagcg ccgcgaactt cgctgtacaa acctaactca tcangcattc actcccatat 420
 gccatttttc attttatnta tacctcaca 449

<210> 56766
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-E4

 <400> 56766

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 cccacgcgtc cggaaaaaag agagaaaaga agccaacggg actcatattt tttgcccattg 120
 cctgcaagca tctaggtttg gtgtctgttt ttttggttc tttgttgtg gatctgaatc 180
 cctgtaagag ctctctctct ctttctcttt ttgcatgaaa tgtgtgggtt ctgtctgaca 240
 aaatctgctt gtgttgtgtg aatctgaacg tgaacagatc atactggaga aaaaaaaag 300
 cagcaaaact agaaatatta ttttaatttc aagctcaatc aaataatatt tctagttntg 360
 cttgc 365

<210> 56767

<211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-023-Q1-K1-F1

 <400> 56767

 gaattcccg gtcgaccgac gcgtacggag ctgactagtt cttcctaaaa cctgtgcttc 60
 tatcagacat gaacaagctc aggccccaga tactaaaaag cagaggcaag cagaaacagc 120
 accagccaag tgacagtcac agtggcggaac gcaagaaccc cacaatcagc agcagcgata 180
 gcataaaciaa ccgcaagaga aacgggtgcag gcacctaaca aatcttgccc cagctggcca 240
 acagatcaag gcacagttaa ctgagaactg actactacag ctaagacctt ttctttttca 300
 ctgtactgtg gcctactgat ttctcacgta aatattagcc ctggatttgc aaaacgcaac 360
 gcaatctgta aactgatact gcttgagtcg aatcgatcga aatgattc 408

<210> 56768
 <211> 51
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-F10

 <400> 56768

 gaattcccg ntcgaccac gcgtgcggg acgcctggac taaattttcc c 51

<210> 56769
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-023-Q1-K1-F11

 <400> 56769

 gaattcccg gtcgaccac gcgtgcggg ctgacgagtt cttcctaaaa cctgggagggg 60
 tattaacact taacaaggct aaaccccaga tactggaaag cagatgcaag cgggaacagc 120
 accagcaaag tgacagtcac agtggcggaac gcaggaaccc cacaatcagc agcagcgata 180
 gcataaaciaa ccgcaagaga aagggtgcag gcaccgaata aatctttgcc cagctggcaa 240
 acagatcaag gcacagttaa ctgagaactg actagtagc ctaaaacctt ttctttttca 300

ctttactttg gcctactgat ttgtaacgta gatgttagcc ctggatttgc aaaacggaac 360
 ggaaatctgt aactgatact tgttgagtcg aatcgatcga agtgattctg c 411

<210> 56770
 <211> 265
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-F2

<400> 56770

ccggnccaga attccccgggt cgaccgacgc gtccggagct cactacttac tcataaaatc 60
 tgagcttcat tcagacatcc acaaactcca gcgcgagata cttaataaga ggtgcatcta 120
 taaaacctac cacctattcg aaacccaagc ttctgaacga tagaacatgc actctcagac 180
 acagaagtcc attataccac cccaatagaa cagccgcacg caccacttaa atcatatcca 240
 agacgtccaa ctcatcatcg ccagc 265

<210> 56771
 <211> 358
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-F3

<400> 56771

cccgggtcga ccgacgcgta cggagctnac tacttcttcc taaaaccttt gcttttatca 60
 cacatcaaca aactcaaggc ccagatacta taaaaacagg tgcaaggaga aacaccacca 120
 nctaattnac aatcacactt tctaacgcaa gaaccccaaca atcagacaca gcaatagcat 180
 ataccacctc attataaaaag gttcacgcac caaataaatc ttatcccaga tgtccaacat 240
 atcaacgcac agctcactga taacttacta atacatctca aaccttttct ttttcacttt 300
 acttttctct actaatatct cacttagata ttagccctgg atttgcaaaa cacaactc 358

<210> 56772
 <211> 143
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-F4

<400> 56772

accggnccgg aattncccg gtgcgaccga acgcgtacac ggtgtgtgta aagctaataa 60
aatgtcntag tgcagtgaat tgtaaggaa aaccattgaa tcattgtggc tgcgctggat 120
taccatgggtg agcgtaatgg tgt 143

<210> 56773
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-F8

<400> 56773

ggaatncccg ggtcgaccga cgcgtgcggt tgtagcaaca ctatcttctt taccagacga 60
agttgttgat acaattggga cagtattgag atctgaagat tcagtttctg aaaggaggag 120
aaaattagaa ttccttgaga tgcaggaaga acttatcaag gaggaagaga aaaagaaaga 180
gaaagaagaa aaggcaaac aaaagaaaga agaggcaag atgaaggaa cagaaactgc 240
tgaagaagat ttagctttga aggaaatgac tgatgctact gctagggaag aactgagaaa 300
agcaaaagaa catgacaaag agaagctctg taatatcagc cgtgccttgg ctgtgctcgc 360
a 361

<210> 56774
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-G1

<400> 56774

cggtcgggaa ttcccggtc gacgcgcac aagttcctgg tcaagtcgcc accgagcgcg 60
ctgggatcga agctcangat gcacgggaag gccctgcccg cgagacccgc cgccgtgtca 120
ccgccgccgc ccgtgaaggc gcaggcatca cctgcaaaaa cgcggcgctg ctcgttctcg 180

cgcgcgaggt tggcgacaag gctcatgtcg cctatcaaag cgaggctgtc gctgggcagg 240
 agcagggaca gcggcgctcg tgctggcggt ggcccgatga gcgggctgaa gcaacggcca 300
 ggtgttagct tgacgggtcg gacgggtgtcg agcaagatat catcgagggtg atgatcttcg 360
 tttgtcttcg gcgtcatgtg 380

<210> 56775
 <211> 326
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-H1
 <400> 56775

gaaaacccgg ggcgaccgac gcgtacgccc acgcgtccgc aaagtgcag ctaagttctt 60
 atgtccaga ctttgtacct gtggcacagc gtacaaaaga tgagtctggc gctgancaga 120
 gagaatccag cagcgtactt gtagacagga catctgggat acaaaatgcg gctgagaagc 180
 cccacgatac caaggtgatc aagcctcagg atccgtgcgt ctccgaagag caggctagcg 240
 aggccgagaa agagaatgga cctcagggat gtccttgagc cggcaatcag ggccaagagg 300
 aggcagcgaa aactgcaact aaccac 326

<210> 56776
 <211> 275
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-H11
 <400> 56776

gaattcccgg gtcgaggacg cgtccggact gctgtgttat tcttgaaggt tatgattggg 60
 atgggccaca actttacatg aggcaaggcc tcaaagtatc ttataaatac tatnaatctg 120
 cattatggaa agggaaacaa gctgcaaaaa ctgagatata aaagatgaaa ctttcatagc 180
 ttacgtgccc agaaggcatt tggtaagact caaaaataat ttattgagtg catgacccaa 240
 ctaaagataa agcctttcag ttggaattga actgg 275

<210> 56777

<211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-A8

 <400> 56777

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 atccagttgt actaggcatg atgatacttt gactggggac gcatcgcccg tggacatggc 120
 caccaaggag aacatggagt ctctgatatc gatcggccag gagctgctca agaagccagt 180
 ggcgagagtg aacatcgaca catggctgta cgagtcctgc tactgtgagg gcacaaatgc 240
 acagtcgcta gctgacttcg ccaagcaact ctctgacgag cgcaagctac gcaagagcaa 300
 tctcaactcc aactaataaa tacctctctc agtcacagca tgtgctcttt ccgcaaattc 360
 accggttctt atttttaatt taattttaat tctttgtgtg tg 402

<210> 56778
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-B2

 <400> 56778

 tcgacgcacg cgcccgacac cgcgtacgtg cactcttccg aggatatgaa acagaaagtt 60
 tctaactagt caaaggggtga agttgaagat gatgaggggg attgtaatga ggacgaggat 120
 gagtaaatag tacgatgggg aacagcagct atgcaattga agtgtttgct gctttactta 180
 tttatcta atgctgaacc ttttgatggt atatgctgta aggaaaatct gtacatgatg 240
 gtaccttatg gtattgcatg ctggagttcc cctttaaccc gaagagcctg atacttttac 300
 cagcctcgtc agcatgtcta aacagttgct cacttgtttt atcgactaat 350

<210> 56779
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-B5

 <400> 56779

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 aaatggagct gatgcatttt ggaaatgtta acctagccga ataagttgac aggtgaagag 120
 caggggaatt gcagtgaagt ctggcgggtgg cggcaagggg acgagagaat gtgtcaacac 180
 gagagactcg tttgcttgca gaggaggat catgacaatg gatgtcgcca agtcctccgt 240
 gtcgaccata tatatatgaa gaataataag aaaacacaaa taccaagta tttagaagcg 300
 ttgaatccag atgtggcatg aggtcggagc caacgtgtac ttgcatacgt tacgtttata 360
 tacatgtact gctctgctgt aaaaaaaaaat atataatatt ataaat 406

<210> 56780

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B6

<400> 56780

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 acgtgcgact gtcgtacaat actatagcgc gtcagaatg ctgggaggtg caagaattca 120
 tccccagtcc agtcacgaaa tggtttgctg cttgactata tcgtgtaatc ttattcagtt 180
 attcttggtt gtttgggtca acttcgagtc attcccctgt ttatatatct tttatatctt 240
 actattccta tatattttat cct 263

<210> 56781

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B7

<400> 56781

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 gtacatgaaa gatggggagt ttgcgcaact gacaaggagg attcaatgag gctggcggtg 120
 ccgtcccgca cccccacttt ggtagcacta cgggtgaacc acgacagtgt ggcacgttga 180
 acttcggttg ccagaacgat gtgaaacctg tctaaattca ttagctcag ttgtaggtgt 240
 ttactgaagc tgattgctgt agttgcctga tcttctggga gtaccctttg ggcagtaaaa 300

aaatgcactt gtcaccggtg accaaccggt c

331

<210> 56782

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B8

<400> 56782

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gtcctcgtag ctggggggtt cggcgatgtc ggggggcggc atgggcagca aggggcgtgg 120

gcaagggcgg cgccaagcgc caccgcaagg tgctgcgcga caacatccag ggcacacga 180

agccggcgat ccgtaggctg gccaggagg ggggcgtcaa gcgcatttct gggctcatct 240

acgaggagac ccgcggcgtg ctcaagatct tcctcgagaa cgtcatccgc gacgccgtca 300

cctacaccga gcacgcccgc cgcaagaccg tcaccgccat ggatgtcttc tacgc 355

<210> 56783

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B9

<400> 56783

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atccattacc aaactggcag actgtgtgct attttcaatg agtagatccg gtccccgatt 120

aaccactaa cataatcatc accatacacc ataaatactt atacaccgat actaatctca 180

ccacttaatg aattcatcta catatttctc atgctaccac ttatgcacta actacacact 240

tatttttttt tccggtctca catcaatctt ctctactcc ctgcatttct ttattgtatc 300

tcaaagatcc ctaacttgc 319

<210> 56784

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-C2

<400> 56784

cggggtcgacg cacgcgtccg gccatatcca aggccacgc catacctttc ctgatcgact 60

tgctgcggtc aggccaggcc cgcaacaggg agaacgctgg cgccatcata ctgcgctgt 120

gcaagagaga cgccgagaac ctgccttgcg tagggaggct gggcgctcag atcccgtcg 180

ccgagctggc gaagaccggc acggaccgag ccaagcgcaa ggcaacctcg ctctgggagc 240

acctcagcaa gctgcagggtg ctctagtagt cccaccacc actgtccatc cacagccaca 300

ccactctgtg cgcgggggcc tgcgttttcg acttttccac gc 342

<210> 56785

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-C8

<400> 56785

ggaattcccg gagggaccca cgcattccgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaagaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaggggcgg gcacacaaaa 120

agacccaaac caaacaacc caaacacaca acaacaaaac accaaccaca aagccaccaa 180

aaacccaaac accagccaac aacaacaac aacacgcaca gaaaaacccc agcccaaccc 240

caacaaaacc acccaccacc acaaccccc 269

<210> 56786

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-D4

<400> 56786

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ggctggatga tggcctgcgc tcttgtgtc ctctatatg tcagatgtac ttcctccgag 120

gagcaagggt tcgctacctt ttcgtactcg ctacagctac agctagtacg tactatacta 180

ataaaagctg cagttttctt aaa 203

<210> 56787

<211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-D5

 <400> 56787

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 cgtgagagac ggggaggtta agatgagccg gaggtctgtg atcccgggtga agttgctcca 120
 tgaggcagcg ggtcacgtgg tgactgtgga gctcaagacc ggccaagtgt accggggggtc 180
 attggctcgag tgcgaggata actggaattg ccagctcgag aacataacct tactgccaa 240
 ggatgggaag gtttcgcagc tggagcacgt cttcatcaga ggaagcagag tgagatttat 300
 gattatacct gatatgctca agaacgctcc catgttcaag cgcttgtaag ctaggattat 360
 gggcaa 366

<210> 56788
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-D7

 <400> 56788

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 catccgccct tgggtgggct atccgataga cgggggacgc acaggcctct cgccctgcgg 120
 gcggctccac aggagagcaa aaatggcgac cctctccatg gtctccgtcc ccatcgcacc 180
 ctctccttg tccctttcca cccggggccg cagctcctcc gcattcctcc ccgctaagaa 240
 gggaggaatc ggtcacgttg gcttgcgat cgagtgcac cgtattggtg gtgttgagat 300
 tccaaaccac aagaggttg agtactcgt gcagtacata catggcattg gacgctcacg 360
 ctacgccag atcctactgg acctcaattt cgataacatg atcaccaagg ac 412

<210> 56789
 <211> 83
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-F1

<400> 56789

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gagcatgcct catttgatgc tgg 83

<210> 56790

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-F3

<400> 56790

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tctgcacaac ctactgcacg acttgccact aggagtgcag gcaaccgaag actggagtgg 120
cgacacatgg gaggacaaca ccggtggtgt tgcaacaact gaaatcgtca cgccggaagg 180
tactgcaaca tggatattcc ggcacaaaat cgccctaggt gccgcaaggg cgctggcatt 240
cctccaccat ggctgtatcc cgcagattgt ccaccgggac gtgaaggcaa gcagcatcta 300
cttcgactgc gcaatggagc ctaagcttgc cgatttcggg ctgtcgatgg tggcaggaac 360
cagggccgat c 371

<210> 56791

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-G1

<400> 56791

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aagtgtaca agatgtagca aataaaaaca ttgatgatca ggtgttgagg tgtgcagaca 120
tggttgaaga aaatgggtcgt catttcaaga actacaagta caacattatt cccctcaatt 180
t 181

<210> 56792

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-G3

<400> 56792

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accgtcagag ccatggacgt cgtctacgcg ctcaagcgcc agggccgcac cctttacggc 120
ttcggcggct agggcgctag gctaggccat gctcgacccg cccccactc tccgctctgg 180
cgtcgtcact ggttccttga cccctgtgcg ggtcggtcgg tgggtctagg gtcagcagtt 240
gtctgggtgc tgtagcctct ctggctatcc gttctttggt gtgaaatgga attccaaatc 300
gtgtgaatgg gaatggatct ctgttggatt gttcaaa 337

<210> 56793

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-G8

<400> 56793

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ttcttatatt tatgtttatt aagtggggga atgggtagct tctaagaagg gagggaacaa 120
catccatttg atgtgaatca ttcattggcac agtatgcaat attggcatat gtggtactat 180
acatacacac ttactgtact cacaacatat ataatagaat ggttgattaa tttattaatt 240
ataaattata aatgtcgtcc tttctatatg atccaaactt acttactctt tcattctatt 300
tttttacttt tttattattg ttcccttatt tctattcact tccctttttt ttattatttt 360
tttatcttta attatccttt tcttttttta ttatttattt tttttatttt aatttttctt 420
ttaccttttt t 431

<210> 56794

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-H3

<400> 56794

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gcacttgggc tcgtctgctc tagaggtcgg gtctggtctg gtctgggtccg ctaagctcat 120
tctctcaatg aggttttcgc cgatttgcag tgtgtataat tacatattcc tgtaaacgaa 180
caacgagaag aactactctt ctatgtcctc agatataatg ggtccagagt ttaagatttg 240
taccaaaaaa aaaaaaataa aa 262

<210> 56795
<211> 377
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-024-Q1-K1-H6
<400> 56795

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ccacgcgtcc gggtaacgaa gccctctatg acgtgtgctt caggactctt gaggtgacca 120
cccctagctt tggatgatctg aaccatttga tctctgcaac catgagtggg gtcacctgct 180
gcctaagggt ccctggtcag ctgaactccg acctcaggaa gctggcagtg aacctgatcc 240
ccttcccccg tctccacttc ttcattggctg gcttcgcgcc gctgacgtcc cgtgggtccc 300
agcagtaccg ggccctcaca gtccccgagc tcacgcagca gatgtgggat gccagaaca 360
tgatgtgtgc cgctgac 377

<210> 56796
<211> 322
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-024-Q1-K1-H8
<400> 56796

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accaaagagg aggggccttg tataggacat gcatacggc acaaaccacc aaggtgccgt 120
aaacatgcac tgccattcaa atagtgtgag aagttgcgtt tctaaaaaaaa aaaaaaaaaa 180
aaaaagataa taaaacaaat ataattaaaa ataaaaaaaa aaaaaaata taaaaaaagg 240
ggcgggcggt ttaaaggatc caagtttact taccgtgct tgctacttct tacctttttt 300
atagggtcac ctaatttaaa tt 322

<210> 56797
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-A1

 <400> 56797

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 ataaaaataa cctaaaatta cacgtaattg cttaaaatcc actttgggtca agacataaac 120
 aaaaaacttt taatacgggg tccctcttac tttctttttt atatcatttt tttccctttc 180
 tttagatccc aatctttttt ctccctattt cctaactatt aattcccttt ttacttcaca 240
 ttactttaat tt 252

<210> 56798
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-A12

 <400> 56798

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 tgggtgttgg catggggcta tcgttctatg gttccagatg ttcactgcac tgggtgtagc 120
 gtttagctac ttcagtgcac caatgggttt gtgtgcaagt ccttaatatg taatacattt 180
 ttgaggtttt catcatgcag aattaaataa atattataaa gtaactatga aaaaaaagaa 240
 tttattgcat ttcatttata aagaaagaag ttaaaaaaaaa gtgtggcccc tttagaggat 300
 ccaggcttac taacgcgtgc ttgcaacttt ata 333

<210> 56799
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-A3

 <400> 56799

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atgcagatct tgaccctctt attgcagggc ttcgtccaat ggcacttcga gagaaactgg 120
gcagggagct tcgtggccgg cttggtttga gattgttcaa tatagatatg attagagaac 180
ttggaaccaa agatcggtag tacataattg atatcaacta cttcccaggt tacggcaaaa 240
tgccaggata tgagcgcagt ttcacagact tcttactaag tctcgcacaa agcaagtaca 300
aaaggtactt aagcgggaca tgaggtgcaa ggaagtttgt gaagaccatg ctactgacta 360
gatggcatat aacggtggca ggtatgcttt cccaccgcgc caatgtacat ttgctggaga 420
cataagca 428

<210> 56800

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-A6

<400> 56800

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tgaaaaaggc actgttgcta aagcttctga gaaggatggg aaagcacaca aagagaagag 120
gggtgatcaa aatttgagga taaaggcact tcgcaataaa gctgctgagt ggcaattgaa 180
agtactcgag aacgagggca ttctgaacgc aaaggagaaa gaaagggatc aaagagttgc 240
agagaacaat ctgaagatga acgcgttgaa atctgaagtc gaatcggagc acaagtgcc 300
tgccggagaaa gaaataaaaa taaaggaaaa gcttgaaaag gttgctgaat tatgctctca 360
agctgattcc gttgctgaag ctggaaataa gaaaatacaa gaaatctgtg ggaagtataa 420
tcaaatttg 429

<210> 56801

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-A7

<400> 56801

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ctggagagac tttatgtaac gaacaggact gtgtcaatgg ggggagtggg acaaaccact 120

ctgtgtatgg gcctctctat cagaaacagc aatgagacta cacgtatgtc acctacagtc 180
 attaaactca tgagcacatc atcgacttac tagaactaaa atatgtggat aaactgtcca 240
 cactatgcat cattgatcac ttattcac 268

<210> 56802

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-A9

<400> 56802

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 ctaactcagg tcctagcgtg tctgttctct tgaagtggca ggggagactt atcatctgcc 120
 taatgttttg ataccctttt ccgtactact tggctcgtaa ttaggtatgc catatacgct 180
 tgctattcca tgtacatgta taaatcttac acattctact ggcccaatta acatgagtat 240
 gcatattatc tatatttgtg ttcattatac gtattgctga ta 282

<210> 56803

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-025-Q1-K1-B1

<400> 56803

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 tcgactatgt tcccgggaat cgctgatcgt atgagcaagg agatcactgt ccttgcacca 180
 agcaccatga agatcaaggt cgatgcaccg cctgagagga agtatagtgt ctggatagga 240
 cgggccatcc tagcctcgtc gagcactttc caacagatgt ggatatataa ggaggagtac 300
 gatgagtatg tcccggcaat tggtcacagg aagagcttat aggcttcgca aggtcctcat 360
 cagtgcctag tctcaagtta tgtcccctac atttctcaag atacgcgtgg cagatatgca 420
 tggtacgggt ca 432

<210> 56804
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-B10

 <400> 56804

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 aaaacctttt taagcaaacc accggagcat cggggctggg tctggctgag ccagggcaga 120
 ggactattac aacgaaattg acatggggta tgaggatgag cccccataac cggagattga 180
 ggaaggatct gaacaagagc ttgagaacaa ctaatatgcc cctgatgaca tcataagtgg 240
 ttaggggttaa cataaggagc aggataagac caagcgtgaa cgcaaataca cttgatacat 300
 gacgaagtac taacgtgctt tcatcctgag tacacga 337

<210> 56805
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-B2

 <400> 56805

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 ttagtggcac catccttgta ataggcgaat accacggacg cttcgtcctt catgctctca 180
 ccatgcaagt tgcaagctca tgattggcag ttaagaaaga taccctactg agatagtgcc 240
 aatgggtgct cttgcatgta atgtactact actacaactg tgtacaggac acttgtgtaa 300
 atgcacatag gttagcagct tgcttcttga ctaacaccta atgggcattt atgttgtgct 360
 aaccgaatga caaaattagc tcgttttagtt gtgataatcg ttatctagtg agtggggaat 420
 gataccgata tcttcgttct tt 442

<210> 56806
 <211> 104
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-B3

<400> 56806

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aaatttttaa caaaaaaaaa atacaacaag aaaccgttta atat 104

<210> 56807

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-B7

<400> 56807

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ctgcagcttg gtttctcgtc gagtcggctc accgcgcgtg gctgactcag ttgcgcacgt 120
ctaagatcga tgactgcgcc gttgtctgcc tgttcctgaa cacagacaaa gcgagcgaat 180
cgtcgagttc tttggccaag aacttggcag atgctgtaga agtttagcagt gccgggcgcg 240
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cagatgggaa cgagggtgtc attgctgaaa ccatcacaaa gctggtcacg ctcatggatt 360
tgcccaatga tggttgagc tctgtgatt gggacctgaa ctaagatata ccacatctgg 420
gggtgctgct tgcagttttt ttttctgaac gcaagtgtg 459

<210> 56808

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-025-Q1-K1-C10

<400> 56808

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ctgtacatgg cgacactcac accaccaatt gaaggatata ttgaaaaagt gcgggaagcg 180
gccaagaagc actctgtgaa ggagaaactt cgctgagaat tcaagagagg aaactgtttc 240
cgtaaggtga ataaatattc aacctaattg acaagaacag ctttggcaca aactgcaatt 300

gccatatttg gtgatctagt caggcatccc aatttgctta gcagccatta tctattgaaa 360
 tccttttggc cattttatcc actctacagg aatttttttt gcaatatccc tagactggca 420
 tttcatttt 429

<210> 56809

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-C12

<400> 56809

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 ggccaaccac tagactttgc ttctaaacca gaggtcccat ctgtgtgccg ccttggtttta 180
 ctagaaatcc ttcttgattc tatccttttt cacttgctct gcctagtttt tttacttata 240
 ctgccattgt acaaacaatt tctccagtgc ttgtagcttg tggacttggg atggccaaca 300
 tgtcatgaat acaaactgag tttgcttcag atatattttt ttggggtgcc ttccataaat 360
 taaattttt 369

<210> 56810

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-C9

<400> 56810

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 ctctgtctcgt ggtacgacaa cgagtggggc tacagcaacc gcgtcgtcga cctgatccgc 180
 cacatgttca agaccagta ggggtttttc cccctgctt ctcatggatg gttgctgctt 240
 gtgtatgccg agaataaatg tggatggcgc gtgctcttgg gtcgccaggt tcatgctgag 300
 tctggacatg ttttgcaatt ttgtttccct tctgctacc atctgtgaca gatccgctcg 360
 ctaatatggg acctgagatt agctttatgc tgcttgtggt gaaaaaaaaa aatatttaaa 420

agggc

425

<210> 56811
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D1

<400> 56811

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acatagtttt gatgctaaag ttgcctagga atttggtacg gtgaagtggc agtggacggt 180
aacaatgtta agttttgagc atttaaatta aacctttgct ctgataaaaa aatacgtaa 240
tcatgcatgt taacaaacac attctatcat ataaaaaagg gcggccgatt tacaagatcc 300
aagtttactt acgcttgcac gcgaggtcat accttttctt aagtgttaacc taa 353

<210> 56812
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D12

<400> 56812

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cacgcgtccg ggaagaacgc attttgatgg ctgcggagga acctgctgga cagggcggtg 120
aagatgggtc cgaactgga cgagccagca gagatgaact acgtgcgcaa gcacgccag 180
gagcagggcg aggagctcgg cgtgtcgcta agggaggcgg cgacaagggt gttctcgaac 240
gcatcaggct cctactcgtc caacgtgaac ctggccgtgg agaacgcgtc atggaccgac 300
gagaagcagc ttcaggacat gtacctgagc cgcaagtcct tcgcgttcga cagcgacacc 360
ctcagggcag gcatgaatga gaagcgcaa 389

<210> 56813
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D2

<400> 56813

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gtggtccttc gtgatctaata tcaactactg catgggctat tttccatgga cgtgatagta 120
aaggtatatatt ttattttctcg aacgcgcgatg agagctgcac atcattatat taagagagga 180
aaggtccaaa gtggaccgaa atacaacacc aagaccaaac ccttaagcct tcaactccagc 240
accctacaa atgggggtggg gggagagcct gactgaccct actagaccct atttagggct 300
tgttcggata ttactaatac acatcgattg gatgtgattg gaaaaaattg agaagaattt 360
tgactcgatt gtgattcaaa cccattcaat ttcactt 397

<210> 56814

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D3

<400> 56814

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gcatttgaaa tcagtgtgtt taattgcgta cttgggtctct ctctctctgg ctaccgtggg 120
ttttggaaga actctctaga tgtacaagtt aatactacta gtactttcca cacctattgc 180
agctgaatta gagaactgtt tttgagttct catgcattat tagagttgtc aagggttcac 240
gaatcaagtt atccagctag ctactttctt tctccctgct tctacttcta tagtggaatt 300
aatttctct tctttctcgg gggttttttt tgttcaaact tggcttgtag caattatgat 360
tgct 364

<210> 56815

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D4

<400> 56815

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ataagtaaac tccctggtaa aatatatgat taaggggtgg aggttaagac actagagaga 120
 atataggggg gctctaacta ccatggctta atcatatatt ttaccaggga gtttagtgat 180
 tgtaaggaat aagtattata catgtcttta tcaagttttt ttttc 225

<210> 56816
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-D5
 <400> 56816

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 gattgattat actagcgaga gtccgaagtc ctgagttggc aactcaaac ttaggggggc 120
 ttcttgacga tgatgaattt gtcttttctt gtttcacctt gaaagcttct cgcagcaag 180
 ggtagcttgg caggatgctg agccggttcg gaagcgcttt gctacgactt gtttctccga 240
 ctggcatgct gttcaacaaa aacttcaacc aggtcgagta cattgaggca aaaacgacat 300
 gaagatgcac tgtaccatc acaagagggtg gtatgatgaa gatgtagaaa atgacgcaca 360
 gaaacctgga aagatgaata tatgcaaaat gattcgcaaa aacctggga agatcatt 418

<210> 56817
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-D6
 <400> 56817

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 taaaatagac attaaatcag cttcagatac aattccaaga gtggcaagtt acacatttta 120
 gaaatcattt caccttggtt acagttcaca ctaacaagtt gtcattgcat ggctaatacga 180
 actgcaaata aactaacat ggtgctatga tacatcgacg tgacagacaa cctaccaga 240
 tatcacatga ccagaacca atccacaatg gaaccaatga caaggccaac aacgaggaa 300
 atcactatga cgatcccggc agtatacgat tggatcatgg gcacagcctt gggcgccaag 360
 atcattatga ctgaggtcaa gtaccgtta gtgaaccca agatgcacgt taacacggtg 420

accgggatc

429

<210> 56818

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D8

<400> 56818

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catattgtca aaaaatctga atctgagtg gctcagtaga ggacggagtc ggtgttatgg 120

gcacctgctt tggcgagact gactattatc agccatagca tcagttcaac tcgaagtcaa 180

gaacatcttt cccctcattc ggtttaagtg taatcggtaga gggaccaatt gtggcaacag 240

cgagtaatta ttaattgttg agcatccatg accgaactat taaagttttt gtaggctcaa 300

tgacatattt gaatagaaat ttgtctttga tcaaaaaaaaa atgactttg 349

<210> 56819

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D9

<400> 56819

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tatctttttt aatgatgtat actgagtttg cggtgatcag gacctgtgt caccacctgg 120

gtcaatttta ctaaacatta gcaccactag ccttaaatac atactacaaa gtctgattta 180

ctc 183

<210> 56820

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-E1

<400> 56820

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acttcataac atcttcagga tttcaacaga ccaggttgaa cactaatggt gatctgcgtg 120
aacatgctca tacactgaca gagataaaat atttcaaaaa agtgatgacc ttcattgagc 180
cacatctagt acccactact ctacaattga ttaccaacta catactctca tgacgaccct 240
ataactaaat acttattaaa gcatatcatg attggcacia t 281

<210> 56821
<211> 319
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-E11
<400> 56821

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tatagttgtc ttgaccacca atcacaagta tgaggatcat tacatatggg agtcgcaaac 120
ttacatttca ttcactgtta ctcatgacac ttcagggcat cagcttttaa tgggcactaa 180
aatcacactg ttccttaaag actatcatct gtagtacctt tacgatcgtc tcctcaagga 240
tcttttcaac aatcactctg agttcatcaa ctaccccatc tcctgtata ctgaaaagac 300
aacatacaat gaaatttct 319

<210> 56822
<211> 351
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-025-Q1-K1-E3
<400> 56822

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tgtgatcatc atggttgttt ggaggacaga naggcgagcg gagcctgtgt aggtgttgcc 120
atgagaagac caaagaggca aatgccaggt ccaaccaacg tgagccctct ttgttttgga 180
cttttggtgg tgatgttgac cagaccattg atgttgaagt ggcaagaatg tcagtgtcaa 240
cagtaatcgg ataaatagat ggtatttccc tgaccctttg tttgtagaac ttgaatgaac 300
ctggggacag aaacacattt gagggttctt gtataaatca aggtcaagat c 351

<210> 56823
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-E4

 <400> 56823

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 accgtatatc tcacgcaaac gcaaggccgg caagtgtctc attaacaacg gcgcgaagcg 120
 tcacctgaag gtccttccca acaacatcca gaggatcacg aacccaccca tccagaggct 180
 cactaagacg gctatcctga agctcatctg caggcttata tactagtaca ccctctgcct 240
 gctctacatc tttatccaca atgtgatcca caactctgtg acctacactg atcacgcc 298

<210> 56824
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-E8

 <400> 56824

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 ggcttttagcc tactgaagtg aagtcccgag aaaggctcatt ttggatccgg cgtcggagtg 120
 acacggatct actaccccaa gggcttttaa tgggtcatgg aggatgtccc cacaagcgca 180
 gcttcattcc agcagtcata ctgtttcatg actggtgagg cagatccagc aagctctact 240
 acatcaaata acgattctgc ttcctttgac catccatttg cttgatgtat gacacgcttt 300
 tcactgggaa aataacactt aaagacacat ttctgtgttt tcaggaagaa aagatatata 360
 tttgttcaag tcattcacca tcattcc 387

<210> 56825
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-E9

 <400> 56825

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aactgaagaa agacacaaga ggggatagcg aacattccta ctgcctatgg tatacctaca 120
tatatatata tgaacaagtc ccaccggcga gcacacacac tgccaccgt tcacagcagg 180
cgaacctata aatatattcc gattccatac tactgatacc gaactaggct tacactacct 240
caagaaaaaa tctagctcca ctcttttttc ggatgcaatc atagctgacg ttgatatgta 300
caagtttgat ccatgcaaa 319

<210> 56826
<211> 285
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-F10
<400> 56826

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tttcgggatgc tggatcggtc tgggctcgag agtcagagtc actttccatc gtgggggatg 120
agcgagcccg ttgacatgtg cctccgcacg gctctgtatg agtcccacgc catcatcttc 180
tgcgtcaagg accaccttct gcgcattggcg cgcttggaca gcgtcttctt tagtagagcg 240
tcattcttgaa ctccaacctg ctgagaccct ctcaatgctt tacgt 285

<210> 56827
<211> 259
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-F2
<400> 56827

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tatgagggtta catctgtccc caaaagcatt tgtggtcata gaagctggcc ttggtttgtc 120
agacctacaa tcttacttac atacaattcc ttcttttaaa tatcttatga attgctgcta 180
cttaaaaaaa tcatactttt ttaacaactc attaatttaa tcaacaaaac tctctacaac 240
ttaaaatata tatatcatt 259

<210> 56828
<211> 200

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-F3
 <400> 56828
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 cctttgcagt tatgtggtgt acctctctga tggtagcact ggcattctac agtgagcggg 120
 actttgtaaa ttgtttgtaca gaaaacgtac atatgatgat gccgtgttac cctgatattc 180
 atgacaccgt tgtttaccac 200

<210> 56829
 <211> 492
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-F4
 <400> 56829
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 gagaccaggc cgaaggaaaa caatcctgaa gccaaaggcat gggtcagcag gaggaatttg 120
 aggagcatgc tgagaaggca aagaccttgc ctgagagcac gagcaatgag aacaagctga 180
 tcctctacgg gctctacaag caagccacgg ttggagatgt gaataccgat cgtccgggca 240
 tattctacca aaaggacagg gccaaagtggg atgcctggaa ggctgttgaa ggcaaatacga 300
 aggatgaggc gatgaatgac tacatcacca aggtgaagca gctccaggag gaggctgccg 360
 cctcttaaaa gtctcttaat agtgttgcca aacagctatt tgtcagatga gctttgtgcc 420
 atttcctcat tagaagtata tcattcgatc cattggggat ctgtgaacca tgtacctggg 480
 tatgtaactt tt 492

<210> 56830
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-F6
 <400> 56830
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taccatgacg cgtcggatct ccgggacagg gtcgagtcca accgacacgt gggtaagctg 120
gacgtggctcg ataggctcat cgacgatgcy gaggtcagc acaggaactt ccagcacccc 180
gatccctaca ttgttccatg ggcaccaggc ggcactaaat tcacaagaaa cccccctcca 240
cctcaaggga tgcgagatcat ctacaattat ggcaaggagg accagtaaac aagagtccctg 300
caagcggggg gcagaacttc cacagttcca aatcacttcc tgtttaatcg agttgttgta 360
cgagaaataa gaatggaaat tactggactc catccatgct tctcatttgc ttgttctgat 420
aatcatgtgc tcttcatct 439

<210> 56831

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G12

<400> 56831

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gcttcttggc cagggctctg atcgccccga agtgctccgtt gtcgcccgtg tgcgtgtgtg 120
atgggtttct gtcgctttgt agcagtagta gcagccttgc ctgttgggct ggtagtggtg 180
cttccagtgc caggtgccgg ctgactgtag tgtgactctg aatgctgcat ctgttctggg 240
gttgaaaaaa taaataaaat ccaacaaaac gagctccctt cgaagcgcaa aaaaaaact 300
gaaaaaact ttaaat 316

<210> 56832

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G7

<400> 56832

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atttaaaaaa aaaaaaaaaa aaaaaaagaa aaagttaaaa ttaaaaaagg gggccgctta 120
tcaaacatcc ctttttactt aatcctcctt tctatcgat atcatattct atactcatat 180
cccattcaat ttatctcacc atttttttta caacccttc tcttttaaac ctttctcttt 240

acccaactta ttctcctttc atcaaattcc t

271

<210> 56833

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G8

<400> 56833

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ccaggaacac cccaagtgc gacgtggagc ggaagtaggg cggcgacacc cgggtggaga 120
tctactgcgc cgccaagccg gggctgctgc tgtccacggg gagcacgctg gacacgctag 180
ggctcgacat ccagcagtgc gtcgtcagct gcttcaacga cttcggcatg cacgcctcct 240
gctccgagat gcagagggaa atgatcagcg ccgacgcgat aaagcaggag ctgttcaaga 300
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agaagaagag gcagcaataa attaatttta agcagctgtg ggagcagcag tagtagtatt 420
agttcaggtc cagtagcgga aaaggcaggc agggcaaaga attgggaggc ctttttgcaa 480
tccatc 486

<210> 56834

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H12

<400> 56834

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ggggtggacg ccgagaccgt gatgagaggg gatcaaggag tcttagctac agcaggagcg 120
caagccctag gcgttctgtg tcacctgcaa aggaaaagga gcgcagccgc acacctgatg 180
gcagtaggag cccagccca agggacaagg tgagcccacc accaaaggat aatgggtgcc 240
acaatggctc ggaccgtgaa gacagccctg ggggcaagga gatgagcaag aggagtcgga 300
gcccgtctga tggctaccgt agccctgtgg gcaatgggcg cagcccagac cgtagcccaa 360
gccccagggt caacaatggt gatgacccaa gcccc 395

<210> 56835
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H3

<400> 56835

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 acttgctgtt tgatctcaga cactttaatg atccacttcc tgatatactc tacattctat 180
 aacctttcgg tctctccctt aacattatgc tagccac 217

<210> 56836
 <211> 485
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-025-Q1-K1-H4

<400> 56836

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 cctacaatgt gggtgaggta ctggatgcct atgatgaagt ccatggcatc tccataattc 180
 ccttagtcaa ggttactgga tttcgaaacag tatttcagcg ccatcaggat ccaaagtcta 240
 ccatgaagat tcttaaagaa gagatgtttc ggttttcaca cctagtgcct ttttacagga 300
 tgtcaggcga agaagctgca aatgtcccca aagatagtta tgagcttgat ccagctgcta 360
 tttctaaaga actgcttcag gggatcacgg aagcagtgga gccaaatgga acctaaggca 420
 gttgatgatg cctgcctttg gtaacctgcc atttttgaag taatcgagca naaagatatt 480
 aacac 485

<210> 56837
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H5

<400> 56837

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ttaccttcaa ataactacat cttgaaaggg cttaaactta atgctcgcga acatcatcat 120
ctcctctata tccatttcca tcattaactt cttcatcaac tacatcttct aaaaactttc 180
cttctactcc ttcaaactct ctcttttcaa caagaaccct accatcacct ccctctagat 240
ccatacctc 249

<210> 56838

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H6

<400> 56838

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agggcattga cgtcgtcaag gccatcgaga aggtgggcac ccgcaacggc tccacctcca 180
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gatggtggtg atctgagtgg tggctcttagt ttatcatgta tcgctcgcag tttaatttag 360
cggtttaggt gtggatctgt gaaccccatg gcgcctctgc ttgattcgtg tttcacctgt 420
tatgttctga gattcatgat aatgctatga gaactgaaat tcccgtttaa 470

<210> 56839

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-A11

<400> 56839

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aggaacaata cgaagaattg cagaagaagc aggaagaagt aatggagatg cagaaaaacc 120

aggtcgtgga agtgatcagc aatccatacg cacaaaagaa acggtgcctg cggagaacat 180
 tgacagggtcc ctggtaaccg agctgttgac gaccgaccgg gcttgacagg atattttaaca 240
 ttatggcacc tgtacatata taccttgagg atttgagaa cccgagtttc cgggtgtatat 300
 tagcgaccaa cagagtgtga gtgtaccttc gcttgactta aaaaaaaaaa aatttttttt 360
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<210> 56840

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-A12

<400> 56840

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 gatacgattg gcgtctatga cagtgtgac cttgttcaaa tctatgcagt tactagccga 240
 atcttctaata aggcggttgc agattttgca ggcgacgaac tactgcatat tgcgacaact 300
 gtaaaagtta cacatgatca tctcgatcgc gctctagagg acaccaactc atgagttctt 360
 attaacttga ta 372

<210> 56841

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-B9

<400> 56841

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 gcacgaatga atgcgtcgac aattttctcat gcgaccacga aggcacgaac tacacacttt 180
 tttttgttgc cgggtctaca gcaatcgtct cctactcccg gcattgctgt aggggagctc 240
 aaagatcccc agcttgctgt gagcgcgacg acggccgtgg ccgcttcact cacttggcgc 300

cgacgccgag cgtgagctcg agctcctcgg cggcgacctc gtggatgcgc tcgccttccc 360
acggcgtgac gcggcccttg tcgaactcga acttc 395

<210> 56842
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-D2

<400> 56842

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atgttcttag gttcatcgca gtttgtaatc cagtacatga ttaattgaag actagaaatt 180
cctagcgtaa agctctgctg agagcggttg tcctggctgt tcgcctgatt gttttattga 240
ctgtagctca gagtgtctga ccttatctgg aaaaatatgg tgacggaaaa tggctcttga 300
gtcaaaaaaa aaaatatt 318

<210> 56843
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-E12

<400> 56843

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aaaaaaaaa aaaaaaaaaa aaaaaaggaa aaattataaa ggaaaaagg gaactaaagt 120
ccttcctttt taaagcttcc atcct 145

<210> 56844
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F12

<400> 56844

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 tccctccgtc atcgctgact cccctgctg cggttccttt ggatctgaat aagatggtgg 180
 tgatctgagt ggtggtctta gtttatcatg tatcgctcgc agtttaattt agcggtttag 240
 gtgtggatct gtgaacccca tggcgctct gcttgattcg tgtttcacct gttatgttct 300
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 ttaat 365

<210> 56845
 <211> 185
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-026-Q1-K1-G10

<400> 56845
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 taaactcccg aaccgttget ggatgcggcc cttgaggcac ctaaacacac cctgatgact 180
 cctgt 185

<210> 56846
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-026-Q1-K1-G12

<400> 56846
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 gcacttaata aggtgcctcc taccctgccc aaatcgccaa tttttacaag ttcaagggga 120
 aagaacttca gtgatacacc attaacacct gtctgagaaa attccaatgc aacatttact 180
 cctccacatc gtcacattat tcttagtctt aaagactcta acagagttca acaatttctt 240
 ccaaataatc ttttgtcaac caaaacatga tttgtcaaag cttatcttaa agccctttga 300
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<210> 56847

<211> 369
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-A12
 <400> 56847

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 atcaacttta ctccctcatc catcattacc ncatctggct caatttcaaa aagctcgggt 120
 gctcaaaaca cccccacaca aacaagcanc cctcttaata cacaccacct catctattcc 180
 cccttaacaa gccaaaatcg cacaatTTTT ttcctagcct aaaccacaac cattataacc 240
 caacatcaaa ctctaataat aaccttgata cttacaacat ctacatcttc aaagttctta 300
 aacttgtaga cacctacatt atcatcttct ccaacgccat ttccattatt aacttcttct 360
 tctaccaca 369

<210> 56848
 <211> 493
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-B11
 <400> 56848

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 gcctgcaaatt cntatatatt gtattctcaa aaagctgggc aaagacaaat tgcttggtca 180
 ctttagccag caaaggactg tattttttat tgacgggtggc ttatacaaac actacaagaa 240
 tttcattgcc tgccagagg ctacgtcac atacctgtc tgcgaggagg ttgcctcatc 300
 ttttgttgc aagtatacca acgacttctc atgaatttga tctgcacttc ttgcttcctt 360
 ccaactccag tatgtgaag ctgcatattt ctagtatctc ggttttctta ctataccttt 420
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 tattttcttt cct 493

<210> 56849

<211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-B12

<400> 56849

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cgcccttttc tctccaccg tcgacgtttc ccaccgcggc gtacttataa aggccggtgt  120
tcatgaaaac natncatgat ctgatccgca cagacttgca acagtacatg gcgagcgtga  180
ccttgcgcgc cggatgccgc tcctttttct tggccgacct ctacatgcc catctcgtca  240
actgcgtcat tctctccacc tcccagcgag tcacccgat gcagtagctc ctgcgctttc  300
atgagccatc aaatactctc ccaaaccgtc aatcaatctt ctatgactaa ctctcatcat  360
cttttcttat caatatcaaa cttccaagtt attattttcc tttttttaa actttattct  420
ctccaaccgc tgttaaacct aaacagcagt aaaaagagtc tcaactg                    467
  
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<210> 56850
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-B7

<400> 56850

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ccgagaaatt ctggagaagg aaaanaanga ggagagtttt gctaaaacag aaggtaggcc  120
ggagcctgca ttatatggaa gcgaggacat ccgccctctt agcatagatg acttcaaate  180
tgcccatgag caggtttgtg ctatcgtttc gtccgactcg gcgaacatga acgagctcct  240
tcaatggaac gacctgtacg gtgaaggcgg gtcaaggaag aagaaagcgc tgagctactt  300
catgtgatgg ggtgagagta tagaatccag aaggatcaca accgtggcat aagatcagaa  360
gaaacacagc cgtgccacca catcggtaca gcggccatag taccacaccc actatggccc  420
  
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<210> 56851
 <211> 406
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-B8

<400> 56851

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agaaacttga actgaagggtg ggaaagcaca acaacacttc gaggagggttc ttaagagcaa 180

catcgcaata tatgtggaaa agttgtctct ggagcagttc aatagtttga tcagattcgt 240

caaatctcgt ccagcgggatg agacggctgc aaattccgag aaagccagca ttgccgaagt 300

tgaaccactg gtaaaagatt tcgcgagccg gtataaagcc gcgatcgagc tgatgcacta 360

tgatgtgatc acatctttca acaactttct ttgcgggatg gagatc 406

<210> 56852

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-027-Q1-K1-C10

<400> 56852

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ggaagaactg aaacatcaag atggtgtttg cttctgcagt ttactattga gaagagtggg 120

ctaaactaaa ntcattgtatt atgctatgca ttcagaagat gatgctaaac tgaataagca 180

catcaatctg atttttctat gcacttttac tatgtttgta ttatagatat gcaatgcaat 240

ctatgcacta aaacgttcaa ctct 264

<210> 56853

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-027-Q1-K1-D1

<400> 56853

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ggaccgccccg tggggaagaa accctgaaac ccatcaagaa tnnngtggtt ggcttcggta 120
cagtgtttac ctattggagg agtagtgagt gcgtgaaann ctgaagnntc atgtnnatta 180
tgnnctatgc nnattcagaa gaatgnaatg ctaaactnnn gaataagcnn acatcaagtc 240
gtgagttttt ctaatgccca ctgagactat nnngtttgta ttaattgggt atgcccaatg 300
caatctaaat gcactannaa acgttcaact tcttaaaa 338

<210> 56854

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-027-Q1-K1-D2

<400> 56854

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cgttctaaac accaatgcaa catctaccn gccgcagcgt tttaaaaaag ggaggcctaa 120
acacactaac aactacaac aatgctcccc aaacagctgt atgccaacca aaacaatatt 180
tgtcaaggct gaacataaac ctttttcttt agcatggagc aaccaaacc tgtatttctc 240
tgtacaaacc taattgccta accttttcca ttccatcca ttttgcttc tattttatac 300
ccaacatctc cagcaaaaga atgctttatt tccaattacc ttttcatct ccccttcacc 360
ttatccattt tcttacatta cctcttact cctaagaact cttttccgca ccattttaca 420
tttcatttta attacttttg gatcctttta ttcc 454

<210> 56855

<211> 191

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-027-Q1-K1-D3

<400> 56855

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atttttataa caccaaaaca acatctacac caccgcggt ttttaaaaaa aagggtgcct 120
aaaaacactc nccctctata acaattccaa ccttacatcc tcgtgcctcc cacaacataa 180

cttttctatg c

191

<210> 56856

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-027-Q1-K1-D7

<400> 56856

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tcattctatgc tggtaagcag cttgctgatg acaagagcgc agaggactac aacatcgagg 120
gtggatctgt cctccatctt gtccttgctc tgaggggtgg ttactagtct aaacctgatg 180
aactagcagt cagataaact gttgtgtttg ctgcgaaatg tgcaggcctg atgttgaact 240
tgcaaggaga taataacaaa ttatcagctt tgcgcctgtg ccagtgga ggggctgtct 300
tccaagttat tgtctgatat ggaattgttc cagattatca tgtctcggcg tttacccatt 360
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<210> 56857

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-D8

<400> 56857

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ttgctttccc gtcacctaaa tgacgaaccg caccaagaag gctggaattg ttggcaaata 180
ttgaaccagg tatggcgcta gctttcgtaa gcaaatcaag aagatcgagg tatctcacca 240
ctccaagtac ttctgcgagt tttgtgggaa gtctgcttgc acaaggaaaag cagctggaat 300
tctaggatgc aaggactgtg gaaagggtcaa ggctagcagt gcttacacca ttaacactgc 360
tagtacagtc acttgacca gcacgattcg tcgctgagag agcttactga aacatgattt 420
agcttgc 427

<210> 56858
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-F12

 <400> 56858

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 gatcttttga actgaatcaa acttttctaaa ggtgcggttt tataactagg gtgggtggcc 120
 gaaactctnt cttnncttca tttgtatatg acatcactca ccactcaacc tttcagaact 180
 ttgagcgttg tctgactgat tttttatacc acacaaaccc aaatatactt cttatgctgt 240
 ttggcatcat atcttatcta ccacatctcg tatcagttca caccacgaa ggaaaaccat 300
 tcgcagagag ggaatcggtg tacttcatgg agacctctgc gcttgagtcg accaa 355

<210> 56859
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-G3

 <400> 56859

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 tctaaaacat ctttcaacat cncacaacat tgtgaacaga atctgctggg ccttctgtgt 180
 ttatttggag gcagnnacia ttaatcttta tttgcgctng aaacaaaata ccaagattgt 240
 tgagcctttt acagctcatt attgtttttc tcagtttttt tcaaggcttt tttttcgttc 300
 atatttagtt cttttttttt tttattttct ttttatcttt tctttatggt tttttttaat 360
 tcttattatc ttttattttt ataacttttt tattttttct tctcttattt tacttttttt 420
 tttaatcttt tta 433

<210> 56860
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-H12

<400> 56860

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gggacatgga tcanagtga ccatcaaagt gtattgggtg attaactctt tggatgcac 180
aagccagcac cagaatgaga gatactatca tctaacaacc ctaacatagt gtttatccca 240
ggcaagctcc ggtgcatttg ccacctcctt gttattttta aacttttatc acttatatgt 300
tgcattangt gatagagggt gagtgatgaa acaattgatg cattaccatt ccttgaaatt 360
taattatctt cattgatacc t 381

<210> 56861
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-A5

<400> 56861

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ctcttcaa at ggctctaagc cagcgagaga cgcaggataa aggccgtagt tttgcaaggc 120
gagtagagca gtatgtcagt aatacagcat ctatggcatg tgcttttgct cgtccagttc 180
atgagccccg ttgtgtatct ggtttccggt ttcttggttg gagtttttag ttccaagggtc 240
cgatcatggt ttgatcccat aaattctctt ccagccttcg agcaactgag tccatcttcc 300
taagtcacga gtcctagcga gacattgaat catggggaaa ctttaacagt attggtgatg 360
atttaatacta tcttttttgt tcttgagta attcaatatg gactttgctt aaaataaata 420
tt 422

<210> 56862
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B12

<400> 56862

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aaggacataa agtgtgtgat aaattatgat gttccagcaa ctcttgaaga gggatttcac 120

aggataggtc gaactggccg tgctgggtgct agcggaaactg catttacttt tttcacacac 180

gcaaatgcaa agttctcaag gaatctagtg aagattctgc gagaagctgg ccaagttgtg 240

aatcctgcct tagaatccat gtccaggtct tcgaactcaa cgggaggagg caattctcgg 300

tcgagaggca gaggtggggt tggtaaccgg ggccatatgt ctggatcaaa tacctttcct 360

ttaggaggaa gaaggccata ttgatgtgtg caaaagaact gtgggagtat gggactatct 420

gtatactact cggcattaag tgcattcttt gggaaa 456

<210> 56863

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B4

<400> 56863

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tgggcatgcg ggcaacgtta taggggatcc aatctaata cctacatcca actaactgat 120

cgttggttta caacgtcacc tctgttaaaa ccattggcct tcctaactca acgtccttac 180

tggaaaaacc cttttcttcc cctacctaata tagctatata gcccatcacc gattgcccac 240

ttgaccaatt ttcc 254

<210> 56864

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C11

<400> 56864

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gcagcacaag caagaaccac acctactcgg tcaccggtga tcatgttgtc gggctgcggc 120

agcaagtgcg agtgcggtc cagctgtccc tgcacagcg tatgcaacgg ctgcggtatg 180

tacactgacg tgtacaccac cgtcaccagc agcgtcaaga ccacggtcct cgacgctccg 240
 accaccaagg tcagcgccgg cagcttcgac gcggtcaccg acggcgacag ctgcgactgc 300
 aacacctgca agtcaggac cagctgcggc tgcttctagt gcagctgcaa ctgaaccggc 360
 ccggttcggc gatagctcac gagagtcgag aggacgacga ccaggaggcg tataatacat 420
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<210> 56865

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D11

<400> 56865

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 gtgtgtagga ttccgattaa tgtaaataca ttgtcacacc aattgctgat ctatgaacat 180
 ttaagttgtc tatatcatta gctaaacttc agctgctaag gtcctacgca taaataatct 240
 tgacttccca aagcatgaga tcagacggaa ggtgtattat gttcaccttt atcaacac 298

<210> 56866

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E1

<400> 56866

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 gtgtgggtta caacttacgt tgtaagactt tattcccccg ctttgctact gggttattaa 120
 gtttggcgtt a 131

<210> 56867

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E3

<400> 56867

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gcctgctacc gtgctgcacc cacacaacac aacacaacac actgctcgcc gccagaagcg 120
cccagagggg caggggagga ctacaggaca cgacgccgcc atcaggcatc atcatcatct 180
cagactcaga gcatgccagc catggcacgc aactaactga ctgactgact cgaaacacac 240
acagcgacgc cgctatactt tatttagctt ataataatta gctagcttcc tccggccggc 300
ctgcaaggtg gagcacctag ctcaacttgc gcagttgcag gggtcgcact ggcagttgcc 360
gcgcacttg caccgctcgt tctc 384

<210> 56868

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F11

<400> 56868

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actaacacgg gcggcccgtc tagaagatcc aaactcacgt acccgatcat gccacctcat 180
aactcttcta tactgacaac taaaactaat cacttggccg tcagtacaca acgctctgac 240
ttggaaaacc ctgacg 256

<210> 56869

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F12

<400> 56869

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accaagccgg cgatccgcag gttggcgagg aggggccgtg tcaagcgcat ctccgggctc 180
atgtacgagg agaccgcgg attgctcaag atcttctctg agaacgtcat ccgcgacgcc 240

gtcacctaca ccgagcacgc ccgtcgcaag actgtgaccg ccatggacgt tgtctactct 300
 ctcaagcgcc agggccgcac cctctacggg ttccggcagat aggtcgcccc tctcccggtg 360
 gcgaattact tggcgctgtg ggaggacgtg ttgagttcct ggactagtta gtctgtgttg 420
 cctttatcgg ggctgttttc tg 442

<210> 56870
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-029-Q1-K1-F2
 <400> 56870

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 tatccaccgt cctcgttggc tcgttgagac ttgagaatac tttgaggttg caatttcaaa 180
 ctgcactatg atgttgtaaa ctgggagtta agtattacgt gtactgttaa actcaaaaaa 240
 taaaaattta t 251

<210> 56871
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-029-Q1-K1-F4
 <400> 56871

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 aaaaatatat atattttttt tatttttaaat aatattttat aatattttta attttttatt 180
 attaatattt tttaattttt tatatataaa ttttttttat tttatttttt tttttatttt 240
 aatttttttt tattttattt tattattttt attttttttt tttttatttt ttttacttta 300
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 aatttttatt tt 372

<210> 56872

<211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-029-Q1-K1-G10
 <400> 56872

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 accaagccgg cgatcctcac gttggcgatg aggggcagcg tcaagcgcac ctccgggctc 180
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 gcgaattacg tggtagcggt ggcggtcgtg ttgtgttctt ggtctagtta gtctgtgttg 420
 tccttatcgg tgct 434

<210> 56873
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-029-Q1-K1-G2
 <400> 56873

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 caccgggggc tgctccctag ggctgtcata tctcaacatc aaagcgggtga ccagcctcag 180
 ccaactcctga tggagggcca acagcagcat gctgcaccag catctgacta cttcaacact 240
 tcagcaccac cagcagcgga tcggactgtg tatccatcaa tggatccaca gacgatgggt 300
 gctatagttt aaccccatga cagtgaatgc aaaccagtgc cctaacaagc ttggcaaggt 360
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<210> 56874
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H1

<400> 56874

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gtgtgtgtgg tcacacttgc cagctagcag aggcgcctgc ttgtacctag attactgtta 120
ccattgtcgt cgtcatcggc taacattgtc ataatgtcag tttgggtcat gttagattaa 180
gtcaaaaaac caagtcaata atgaagatac aatctgtatg agatatttta ttcggttcaa 240
accattctct atatttaatt gctagtatga tgtgatttcg tgttttctaa ctctactctc 300
tttattgttt tgctttttat tagtattaaa ggggggtcct ttttaaggga acaacttttt 360
gtgtggcgct ttttttatgt 380

<210> 56875

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H10

<400> 56875

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gaattctaca aggtgatgtt gggatgaac aactttatca acaacatcta catgaaacac 120
a 121

<210> 56876

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H11

<400> 56876

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ctcatcgggc tcgccgttgg tgacaggatg atgtctgcga ccgatggcag gaagggcaag 120
gacatcactg acgcggctaa cagaagcagc agaatcacgg agcacactgc ttctaacaag 180
aacatgcatg tctggatacc ccacatcgat tctgcgattc cacaacgcct accacatagt 240
tagatacgcg taccaggaca caaacaagcc atgtaagaca tctgacacag taaacgcttg 300

taatcagtca gggaaaaaac atgcaagccg tg 332

<210> 56877
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H2

<400> 56877

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gacattacga ctgctgctgg tgagaagaac ctatacgaca catggggcat gcgatacaac 120
atattggcat cttgattaaa ttacatccgg aagagcattc ttggacagat cactcaacgt 180
cagtaagtaa gctatatcta tttggttgca tggctcactg ccttgctaatt ttcgctacat 240
gtaatgcaac gttcacattt gtactctg 268

<210> 56878
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-A1

<400> 56878

cggaannnnn ggggtggaccg cacgcgtgcg cccacgcgtc cgggtcaagct tgaggagcag 60
agggttgagt gcattgctca gctagaagag aacaatgtgt tgagaagtaa actcaaagac 120
attgctgata agtataacat tactcagcag aaatatgctc accaattgaa agagaaaatg 180
atggaacttg agcttgctga totgagactt caacaacatc aagagaaggc tgctcacgaa 240
catacccaaa tgcaattgta tgccgagcaa gttctcagct atgactact 289

<210> 56879
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-A10

<400> 56879

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 tccttgtcgt cgtgtaggtt tgagttgagc tgtcangttg gagtgaccct tctcctgtgt 120
 aacgcttgcc tgggtactgct tcagttatatt ggacactggt tgtgttgagt tgtaaacttc 180
 aagggtgcaa acctggataa ttatttagtt attatatgac tatctggtat ccggttta 238

<210> 56880
 <211> 109
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-B11
 <400> 56880

acttgggggg ttaccataca gcaatgctgc tactgtatga aggggtggagt acacattcna 60
 aagggggggg gggggggata aagaaagaaa gatatcggac gaccaatct 109

<210> 56881
 <211> 329
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-B8
 <400> 56881

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 cactcgtccg cccacgcgct cgcagctcgc gttgactacg tccctgggct ttgtgcacac 120
 cgccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaagg gggggccctt taaaaaaatc aaattttact 300
 acccggggtt ggcaaaacta taattttttt 329

<210> 56882
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-030-Q1-K1-B9

<400> 56882

accggtccgg aattgccggg tcgacgcacg cgtccgggca aatcagagaa ggctagcggc 60

caaatcccaa agcatcaatc gtgcactctg gttagcgcctc tgaagtctga actgaatgtg 120

tcatcccgga ggacacattt tgtaaaaaaa acagtagctt tatagcctta ttagactggtt 180

aaaacacact cgactgaatg atgtccgggtt ccatcaacaa ggcttcacgg agactgtcga 240

gtacctgac tgggtcatgt tttccatagt ttgcttctgt gcagttgcct aataagccca 300

ttcgttgtaa actagctagt tctaacttaa gaaacctccc tcagggccta tgcattgggtc 360

tctgattatt gtgcagatga actgttggtt tggacatttt gaacatgc 408

<210> 56883

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-C1

<400> 56883

gaattcccg gtcgacggac gcgtgcgggtt tggctcgtcag aagaccttgc atggagttct 60

gggtgggtgga aaacctgctg atgtgcgtgt tatggangaa cggaaagaga tcatcnaatg 120

ttctggctct tgcaacagct atttgggttt tctttgagtg gctcgactac cacttactga 180

caattgtttc atttgccctt gttcttggaa tgggtgtcca gtttgtttgg tccaacttct 240

caaacatgct aagcagcgga tcccgttctc aggtgccccg agttgaattg cctgatgagt 300

tattttgtgaa cattgccgtt gcaatcgggtg cccaaataaa c 341

<210> 56884

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-C3

<400> 56884

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ccaatgaatt ggccggcacc gtcaaggaga tctcgggtac ctgcgtcagc gtcgggtgca 120

ccttctactg caaggacccc aaggacctgc agcaggagat tgacgacggc gaggtggaga 180

tcccgtccgc ttaagaagga ttggtgtcca ggactgtgtt atctttgctg ctgaagccat 240
 tttctctgcc tagattttct catatttatt tgaggtgggg gtggacgtgg acgtggaact 300
 atggaagtta tcacagcgga gttttgctta gaaacttgtc atgctttagt ctgagacaat 360
 ttatgaacat tcctaggtac aatccaagtt accaggcctg ggtttgttgg 410

<210> 56885
 <211> 209
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-030-Q1-K1-C4
 <400> 56885

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 tgagtggagg gtatattctt atcacaccga acatgtgcat gtagccctg tttccttcta 120
 tctcgtgttc tttcatgtaa ccatcacaat atatatacat gttgcttaaa taaacaaaaa 180
 ataaaacaag gaatgtacta ttattatat 209

<210> 56886
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-C5
 <400> 56886

caccggtctc ggaattcccg gggcgacgca cgcgtacgcy gacgcgtggg tttgcattgt 60
 aggetgtatc ggttgtgttc gtgtgtgttt gccgcgcgc ttttttggcc gatgcttgtg 120
 ctntnaataa ctgcccctcc tttgtttgtg atatgcaaaa attttgaagt gagtacagta 180
 caaccaaaca tgttgatgat ggaaaaacga atggagaaaag gggaaaaaca aacaaaaatg 240
 gtttgggacg gcagtgttcc atggttnaaa aaaaaattna aaataaatat tataatttat 300

<210> 56887
 <211> 457
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-C6

<400> 56887

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tttggtgct ctaaataccta agttgaccat tgtgaggaag cactctgctg tggcaaataa 120
tanttcaaat gcaactggag cgacagagtc tgcagatgat gatttgcta gtgtcatgac 180
ttgcgccaac tatcttaaac taccaccata ctccaccaag gctatcatgc taaagaaact 240
gctttatgcg atcaacgaag gccaaagggtc atttgatctt tegtgaatct caacactaac 300
ataggtattg gtccacctag aaatctgcgt cattgttacc cagagttagt ttctacctca 360
ttcatgtatg acataggtta aactcagctc tccggagtcc caccgaagggt ttggagccccg 420
tacctttggg tgtggatgct tatactctct tttcttg 457

<210> 56888

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-C8

<400> 56888

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gtcatttgta aacgctgga cctctcgtg gacgaaatac tggctttggg gcaagaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaatnggggc gcccttttaa aaaaaaaaaa tttatattcc ctttcaatta aaaattaaaa 300
atTTTTTTTT agtgcaacaa aaaaaaata aactgcccc tttttaaaaa cttttaaaact 360
aaaaaaacc cgctttaacc aaattaaata cttttaaaaa aaaaaccct ttt 413

<210> 56889

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-D10

<400> 56889

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agacaaaata cgaaaggat gattacgaga tcagagcagc agagctggtc gcaagttggc 120

aggatgaact aaagaagcca tcctggcatc cttttaagat ggttgagggtt aacggagaaa 180

ataaggaaat tctggatgac gatgacacaa aactgaagtt cctgtggatc gactacgggtg 240

atgatgtgtg caatgcgggtg aagaccgcac tgatggagat caacgagtat aaccccagcg 300

ggaggtatgt tgtgccggag ctctggaact tcaggaaagg ccggaaggcg acggtgaagg 360

aggtgctcaa gtacctgttc agtcagatgg acacgacgac gaagcgcang atgggctgag 420

gaagtgcctt ctatgtngtt gcatcagtcg tgtgctgctc gatcccc 467

<210> 56890

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-D11

<400> 56890

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gtgcttcaaa gctgggtgagg atgctgatgt cctgggcctc agtggacatg agcggtagat 120

catcgatctc cctaccaacc tcagttagat ccgtcccggc caggatgtga ctgttactac 180

cgacaatggg aaatctttca cttgcatcgt tcgctttgac actgaggtgg agctggcgta 240

cttcaaccat ggaggcatcc tcccttatgt catccgcaac ttggcagctg cgcataactg 300

aggcaaggtc aacacaccgt ttgaccaca atggcagtg caggctccat gttcccaggg 360

ctagcgacct gggtctcaat gtagtgacat ttgtgatgga tctaggggtc tctttgtcga 420

ttcagcccat aaataaagtg tgaaataaaa gccgcaggtg gaggcaggaa cc 472

<210> 56891

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-D2

<400> 56891

gaattccccg gtcgaccgac gcgtcctgtc acactttatc ctacgcaagc aactgntct 60
gaactgggag agaagaatac catcgcgga cgggattaca atattaggga gtagagcacn 120
tactgttgcc cataaagacg gcacaagaat ggtgacctta taagagctat gatgatgctt 180
cctccaaaaa agataccacc atctctgcac acgcatatac tgactgtgct gaatgataca 240
atggtgcgcc aaactgctat cgacgttaaa tgtgtgctgc tgatgtacta caagaac 297

<210> 56892

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-D7

<400> 56892

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ctggaaagta cgttgagctg aaggagagtg tgtaaaagt ggcagggggg tttggatggc 120
aagtatgatg accttcacga acagtcattc tacatgggtg gaggaataga ggaggtcatc 180
gccaaggcag agaagattgc caaggaatct gcatcataag ggtctacag gcaacgcaaa 240
atttaacttt tggagggtcaa cgtgatgtgc tttttatcct gtgttatcaa gaacttacgt 300
gcaggagacc ctgccctgca gaaggatgtt tctctcctcc gtccccccac cccacacccc 360
aaaataagga ttgcagtgca cattttaatt tggtttactg ccctttgaag aagaattacc 420
tttttttgat g 431

<210> 56893

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-D8

<400> 56893

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gccttgcatg gcagtcacat aagtattgct cccgccaaaa aaaaaaagg gaaaggaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg ggggcccttt 240
 aaaaaaaca aaattaactt acccgggctt gaaaaataaa aattttttta attgggaacc 300
 aaa 303

<210> 56894
 <211> 211
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-D9
 <400> 56894

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 cgctatgggt tgcttggtgt atttgctcgg gttagtcggt atgtagtagg gcttgggtgc 120
 ntatcatgct gtatgctacc acaaagactt tggtcacctg cactgcttga tatgccagcc 180
 atggcatatg tgacgagtat ttcattat t 211

<210> 56895
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-E1
 <400> 56895

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 tcatgcagtt gcagaggcag aggctatcag ggcaggagct gaagcagctg gtagggaagc 120
 ataagctgcg gaagcagagg cccgagctgc acaggccttt gctgaagcag cagttttgac 180
 actgaagaac agaaatgctg cgaaattggt atagctcgag tccatgaatc ttagatatgc 240
 cctcttgctc ttccacacgt agaatccagt tccgtagctc tgtatgcaac taattggtta 300
 ctaaaagaac ctgaaatcag aagttttcac aaacacaccg acttattcac cg 352

<210> 56896
 <211> 312
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-E9

<400> 56896

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taaaattaaa aaaaaaaaaa aaaaaaaaaa agtaattggt aaattagaaa agggggtagg 120

aaaaaatact taattttatct ataataaata aaaaaaaata aaaaattttc ttgccactct 180

ttattttttt tttttttcgt ttttttttta atctttcttc ttttatatcc atttggtttt 240

cttttttatt cccttttctt attttattta ttttgcttta taaaaatctt ctttttaaaa 300

ccttttcttt tt 312

<210> 56897

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-F1

<400> 56897

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atattaatcg gccagctggc tatcttgtgt gtggctcaat aggtcacagc aatggctatc 120

attatgctac ctgatgcctt caaagctgta cttacatgtg acaacagtgg tgaatttaat 180

aacattcatg ttgttcttgc ggggctaaca aatacatatt cgcagtatat tacaactttt 240

gaagaatatg agatccaaag ataccacgga gcgttgacct tgtatggccc ccacacattg 300

agcgcctaca ttcacgagtt tcagaaactt gc 332

<210> 56898

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-F11

<400> 56898

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atccgcacga actgatcgag gaggaggagc ttatgaggag gaaactggac gagagctaac 120
gagatagaag ccagctggcg gaaaacctat caagcctatg ctccagcatt ctgaaggctg 180
ctggagtttc ggactcagca tctgacgcaa ctcttttgaa agcatcggag tgcttggatc 240
agctccagtg ccgtatcgct tctttggaag gccaaagtga ggatctaaat ctaaagtgca 300
aactagtgcg tgaaaaggcc cgctgtccg agctccggag caactcgctg tctctgcgca 360
caggggcgaa gggcaatctg acatcgccca gtccggacac atcgncaagc atttcgtcct 420
tccgatgaca caagcggacg gatacatcgg cgagaagc 458

<210> 56899
<211> 274
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-F3

<400> 56899
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cttgggtcaag gtccgtgtgc tttaaagacc cagcttcagt ggcagtgagt gtggctgctt 120
gtgtangctt tggtagctac gggctttatt tgcttccaag tcagggctctg gatgttgtgt 180
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tggacattgt tatgtattaa taaatgcttt gctt 274

<210> 56900
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-030-Q1-K1-F5

<400> 56900
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ccagcctttc gctagggttt atccaccggc ggcgcgcgcg acggcggcga gatgggtgcag 120
cgtctgacct acctcatgcg gcacatctat gccacgtagt ccaaccagac tcggatcgctc 180
aagacccttg gtggcaagct cgtgtaccag tacaccaaga agagagccag cgggccaag 240
tgtcccgatg ccgggaagaa gatccagggc attccccatc tgatgccagc tgagtacaaa 300

aggtccaggt tgtctaggaa ccgcagaact gtgaaccgtc cctatggggg agtactatct 360
ggaactgcag ttagagaaaag gatcatccgt gctttcctgg ttgaagagca gaagattgtc 420
aaagaagtgt tgaaat 436

<210> 56901
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-030-Q1-K1-F8
<400> 56901

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ggacggtgtc gaacaggggc ctcagatcgg gggcgggcaa ttcagcaaga tcgggcggtg 120
cgttcagtcc ggcgtcgaca gcggtgccac cctcgtcgcc ggcggcgaca gggtaggcga 180
caggggcttc tacatacagc cgacggtggt tgccgacgcc aaggacgaaa tgaagatcgc 240
tcgggaggag atattcgggc cgggtgcaaac cattctcaag ttcagcggcg tggaggaggt 300
gatccggcgc gcgaacgcga cgccctacgg gctggcggcg ggggtgttca cgcggagcct 360
gtacgcggcc aacaccctgt cgcgggcgct gcgggcgggc accgtgtggg tgaactgcta 420
cgacgtgttc gacg 434

<210> 56902
<211> 457
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-G1
<400> 56902

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aaggggagag ggagatggag gatgctcgca ggggagagga gcggaaggag gatgctgttg 120
acaggaatac ccatgagccg cagcaaggtc aaggcctcat cctctcactc gccaacggca 180
gcgacagcgg caggtctgga atgttgccga tgtcgaaacc ttcagctaat cccacacagc 240
ttacaatttt ctatggtgga tcagtatgtg tgtatgactc ggtgccacca gaaaaggctc 300

aggcaatcat gcttatagct gcggctgcag cagctgcggc agccacccaaa tgcagtgctg 360
ccactgcttt taatcctcca atgagcactt ttgtagcagc tggacaagct cangttgttg 420
ctgaccctag ctcaataagc aagcttcagg ctgatct 457

<210> 56903
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-G3

<400> 56903

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aaaggcttga cccaacaaca acaacaacag cagcgggtggc gccttttgaa gcttgacggg 120
atgccgctgt cccccaacgt ggtgcgcgtg gccaccgtgc tcaacgagaa ggggctcgac 180
ttcgagatcg tccccgtcga cctcaccacc ggcgccaca agcagnccga ctttctcacc 240
ctcaaccctt tcgncagat cccggctctc gtcgacggag acgaagtcct cttcgagtcc 300
cgtgcgatca accggtacat cgccagcaag tacgcgtcgg agggcacgga cctgctcccc 360
gcgacggcgt 370

<210> 56904
<211> 473
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-G4

<400> 56904

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tgttttgata aacgcatgca taactatgtg ttcggcanat gtcggagagg agagcagagg 120
agctcatgct cgtgaagatt tcacgaccag agatgacgag aagtggatga aacactcact 180
gggatactgg gagaacgaga aggttcgatt ggcatacagg ccggtgcaca tgaacacatt 240
ggacgatgaa gtagagtcac tcccgcctaaa agcacgtgtc tattgatcga ttcaagccta 300
acacctcggg aattccatgt aaggtgttaa taaagcagat gtgcgttcct ggctgagaac 360

atgacctgga ttagtgcccc tcattttctg tgtttctgta ttctgcctaa gttgctagaa 420
ataaagggta cgatagaaca catgctaaat cctggctgat gtttgtgtac atg 473

<210> 56905
<211> 222
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-H5

<400> 56905

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tgtttgata agggggatgg agtccaaatg cttaggattt agtgcaactt tgaactaaat 120
ttctagagca acccccttat ttgagcacc c atgtatgagc cagattatgt gattccctgt 180
accatcaacc agttgactaa taaataactca cctgttgcct gt 222

<210> 56906
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-H7

<400> 56906

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taacggcaag gatctcaacg tccgtatggt cacctttgac cagaccaggt gcctcttctt 120
tctcnttttc ttctgcatct actttatctt atctactctt ctattaacca aattatgtta 180
ttcccttctc cttttttcat tttacttact aatacttacc tttttttcta ttaaaatt 238

<210> 56907
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-H9

<400> 56907

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ctggtgccgc tgcttcagac aacagggagg ttagcaaaaa cagttgcaga atatttggca 120
tatctttgac cgagaagggt ccagcaatga aagaaaaggg ctgtggtgac atcaacacca 180
actatccatc ccccttcctg tctttgaagc aacaagtgcc gaaatcgctg ggcaacagct 240
gtgccaccgt tcatgagcag aagcctgttg ttgctagggt gattgacgtt tcaacagtgg 300
atatgatgat ctgatgtatt ggaaaactgt cctggagggt gtgttgcgta gtgtggacag 360
tgtcngtttg atggttcggt atcgtgaaga cgggatttga ttgaggatct ggccagatnt 420
gtatcctagt tgtagctggt agagcacttt gtatgacaac cgtgag 466

<210> 56908

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-A11

<400> 56908

accggtccgg aattgccgga tcgaccacg cgttcgattg ccttaggatt cctatcacca 60
atggacgtct caacatggga acttggcagg gtatttggct ctgtgaacat cgagattatg 120
ctactcctcg acagattgtg atcacgctga atgggatcta gcctaagggtg atctatgtta 180
agagctggaa atgcaatgca gcgacttcga catgtttaaa tcagatgcac tgaaactgaa 240
actgtctatg gccagttgt gataggcgtt ccagtggaga atgttatttg taatatgatg 300
ctagcatgag gggaacaaaa tctcttaacg agcttattct catgttgagc ttgttttagct 360
atcttgggtg gtttaaaaaa tatta 385

<210> 56909

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B1

<400> 56909

accggtcttc aattcccag tcgaccacg catccagatc agtctataac tgatactttc 60
aaagtttcta tcgtgatcaa tagcactccc tttttaagac acagcacacg gacttttgat 120
tatgaaacat ctagtacttt cattaattta tattctatac aaacctacta 170

<210> 56910
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-B6

 <400> 56910

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 gttccaaagt ggaaatggcg tgattacggt cgactgcacg gaaggttatc cactaatcag 180
 gttacagcta ggaaagcatg tttttctaag tgcaggggat ttgtatctgg ctatgcgacg 240
 ctaatttttg tgtgcagcat cccaattttg actgattcac ccatcatttt gccgcaatcg 300
 gcttaaacag cttgggtcca tttatgcatt catattcact tggtaaaggt gaaaaattcc 360
 aatttatgat aaag 374

<210> 56911
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-B9

 <400> 56911

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 catgttgtct acttaciaaac ttatatctgg tttgaggtcc atggggatca actaatgggt 120
 ctgggaatth atattatgat gttgacgata aaaataaaaa attactatta aaatataatt 180
 aaataaaaaa aataaaatat aaaaaataat aatataacta atttataatt aaaatataat 240
 aacaaaaata caaataaaat ttaaaaaata taatatatta attatttaat ttaaattata 300
 ataatttaaa acttttatth t 321

<210> 56912
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-C7

<400> 56912

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ttgcgaaccc tcgctgtttc ttcggcatga cggctctgcgg tgcccttgct ggccggatcg 120
tgatggatct gtacgccaac cagggtgcca agactcgtga gaacttgcgc gcgctgtgca 180
cgggccataa gggcgtgggc aagtccggga agccgtttca ctacaagggc ttcaccttgc 240
accgtgtcat acccgagttc atgtgccatg gcagatactt taccgcgggc aactgcaccg 300
gctgcgagtg catctacggt gagaagtttc ccgactagaa gttcgagcgc aagcacac 358

<210> 56913

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D7

<400> 56913

tccggaattg accggatcga cccacgcgtg cgtccacgca tgcggcgcct caccttatac 60
atttagctca tacgcacact tcagggtctc gagatgacat gtcattggaga atacaatata 120
cacactt 127

<210> 56914

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D9

<400> 56914

tgcccgtagc ggtccggaat tgccggatcg acgcacgcat tcgttcacac gtattaacta 60
ataccttctg catatgaact tgaaagctta acttagtcat atgggctcat agtcataggt 120
ctatagtcat aagattaatg taaatcaatt tctataccat tatctaattc atgaacattt 180
atttacatta ttttatcttc taaac 205

<210> 56915

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-E3

<400> 56915

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caccagtgcc caattgcatt gattcctact cgtccctac atggtgccta caatggatgt 120
cgtcggggcc gatcaactcg acttctgtgc caagcctgcc accaacgggt aggcccagtc 180
cggcgcc 187

<210> 56916

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-E8

<400> 56916

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cccctaggat caagatcgag ctatgtaact cgagcagggg gagacgtaag cccgctggcg 120
ctatatcaag gactaccaat ccatggcctt ctctctcaac atatccattg agtaagctct 180
cgaagattat gacaacgatg aactctagca tttttaagc tagaacctca ttttcttat 240
ctcacagcga tgggttctcc att 263

<210> 56917

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-F11

<400> 56917

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gctcgcatgt tcgaccgtgc cacctctagc atgtacaccg tgcgctctt cagaactccc 120
ccgttacttg tatccggtgc atgccaccgt tctggactga tatctttag gttccactta 180
ggaatcagta tcagcgactc taccctagat ggtttgtagc tcgcacggca ctcgttcttg 240
cgtcgcatcg aaaccttcag gctaaatgct tagttgaaac tgttcccgatg attcttaagc 300
tatctatgta tctgaggatt ccccggtatg ctttcgacga tgaactgaa taatttgaat 360

gcacgatgat tgttt

375

<210> 56918

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-F9

<400> 56918

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ggtggtggtt agcgtgacgg ttgagggcag cgtcagcggg gtgaatgcca tggtcaggct 120
gggcgccagc gtctgggagg ccattgctgc cgtggtcgag aggtacgcca gggaggggag 180
aagcccgcgc ctggatccgg ccgcagcata gagcttccaa cttcaccact cccacttcag 240
ccttgagagt ctgaacaaga aggacagaat cggagacgtg ggaggtagga acttctacct 300
gcacaagaac gattcaagca acgacgggct ctacctacag ggccaggatg agcccgggtgc 360
agatccaagt ggtggtgaca tcagtcggca ctctctctca tgagtaggac aagcatctgg 420
tggcgctaca agtcagtacc aggtccttac cat 453

<210> 56919

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G11

<400> 56919

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aacctaattt aaattaattg gccttatttt taaaaacttt taat 104

<210> 56920

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G9

<400> 56920

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tggcctagta cgacgtacaa gtatacctgg gcatctggag actaccaatg cgacatctat 120
 agcatacatg ctcatccacc ccacgaatac ctagacttac aaatataaca ctggctaaaa 180
 ctggaagctg cactattgca gtctcgctt accgatacgt gctgaccata atatcatgtg 240
 tgtaacaagg gacacaatag tggcacgtct aaagcattgc gcgaacaggc tcacactgcc 300
 accactacct ttacagttcc attatgagca gccattacta gtggatctcc tagtttgaca 360
 ggttcgcgaa caaaaaatct gcatccttct caaaacacac ac 402

<210> 56921

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H2

<400> 56921

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 tggaggccaa ggccgagggc acgaacggac ggctcgcggg cgagcgccga ggtgctcgag 120
 gtggccgtgg acgtgaccgt ggtctagttc gtgcacgacg ccggggacgc gctggacttt 180
 aacaagttct gcgccgtcga cgtccgcccc gggcttacgg agatcgtctg ggcgtggcag 240
 ggcgacagcc tcggcgacga cgtcggcacc gcgtgaacaa gcgtccccgt ctgtcacgtg 300
 gaagttgtag caactttacg taggagttaa acacggctgt actggcacca gctttttata 360
 gcatgtaaag t 371

<210> 56922

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H3

<400> 56922

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 ttgattgaaa aaaaataaga tatattttat gataggatag g 101

<210> 56923

<211> 326

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A1

<400> 56923

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 tactgttggg gcactatatt agttattgct aatcacaggg gatacaatcg gcatctgtgt 120
 tgattaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaataa aaaaaaaaaa ataaaaaaaa aaataaataa aaaaaaataa aaaaaaaaaa 240
 aggggcggtt attttaaagg aaccaagctt acataccctt ccatgcaact tcataaccct 300
 cttttagggc cccctaaatt caatta 326

<210> 56924
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A2

<400> 56924

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 ggcacatggg ccaaggacat ccagcttggc gcgccgcata cgtggggaga gggcctaagc 120
 atcgtatatt ctgtcatcag tgcccgatca gaagatgtag agatgtgctg ggttctgtag 180
 tttgggttac tgtcgaatca tcgagtagtt ggttggtcac tgctgtaact tattatcatg 240
 atgcatatga aatggcaatg aactatgtta tcagttcttg taaaaa 286

<210> 56925
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A6

<400> 56925

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 atgtgatctc tgtttactga tgcggctgga gcgtcatgtc aactgctcac cctcccccta 120
 acaaattaaa ctacacggat gagtggagct tcatgttggg atgatccatg caccttttaa 180

gttttggacg tcgtactcaa atgtagcttg tgttggttga acctattgta ctttcttttc 240
gatttaaatt atatgatatt taaacatttt gatgtttaaa a 281

<210> 56926
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B7

<400> 56926

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gaccatgaga cccgcaagaa ggtgaagtgg gtgtactaca acgacaagga gagccataag 120
ataatggctg aagtctttga catggacgag cttgactcgg cattcggggg aaagaacca 180
gcgacatttg agtacaacag cttcgacgag cagatgcagg atgacgacaa gaagatggga 240
tctttgcacg ggtcaaccaa tagcttgctt ggatcatctt ggaaggatgc taat 294

<210> 56927
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-D12

<400> 56927

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gtggtgacaa gtggaagtcc ctgtctgatg ccgagaaggc tccctacgtg tctaaggcag 120
agaagctcaa ggctgagtac accaagaaga tcgacgctta caacaacaag cagtctggag 180
acccacggc gtctggtgat tccgacaagt ccaagttcga ggtgaacgac gaggacgagg 240
agggtgacga gtgatgtatg acggatgaaa ctctgtccag tgtttgcagt caggg 295

<210> 56928
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-D6

<400> 56928

ggcgcgtgcc tctgggtcgc caggttcatg ctgagtctgg acatgttttg cacttttgtg 60
 ttcccttcct gctaccatct gtgacagatc cgctcgctaa tatgggacct gagattagct 120
 ttt 123

<210> 56929
 <211> 234
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-E12
 <400> 56929

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 tactatctga caccgaatct atgcattaag acttccagtg atctggggat tttaagtaac 120
 gcctgttttt attcgtgagt tgtaacgctg cggttcgagg agcttttagtg ctgtatgatg 180
 tgtaaaactat ttgttgtaag ttgtaaccaa ttgttgtaag ttgtaaccag ccac 234

<210> 56930
 <211> 230
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-F10
 <400> 56930

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 ataggcaaag gcatggtgcg cctctaagtg ggacatcccg tactgggaga cgtctgctaa 120
 ggatggaacg aacgtggaag atgccttcca gtgtattgta aagaatgctc tgaagaatga 180
 accggatgaa gaattgtatg tgccagatac cgtggatgtg gtaggtggca 230

<210> 56931
 <211> 478
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-G1
 <400> 56931

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caccactcca ctgggcatgc cttaatggac gtatagaggt aatcagggct ttgatctcag 120
 cgggggctag cgtgagtgct ctgaacagcc acgagaaaac gccaatggac gaagcgggtga 180
 ccacaggcaa gatggacgtg atcgacgcga tcggtgcggc agtagctcaa gccgagctcg 240
 acggcggttac tgtctcctaa aaggacctga tgagtacctg gagctttgaa tgacttgcag 300
 ccttgttctt atctcccagc ggttctgtct gtatcactcg cgaacctgaa tccccgacgg 360
 cccagtatcc gggcaatata tatactgacg gcaatcgctt gttagtgtca ttggcttgaa 420
 gacatgggag gccgacccga cctgtcgttg taaaccagat gtgcagatgt caaagatc 478

<210> 56932
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G4

<400> 56932

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 cagactgcag tgcaaaatat tgttttgcac tgtagacaac actattatag agtggatttt 120
 gaaattagat acagagataa ataagctgct ggagtaagtt agcctcaaac tgattcgcta 180
 caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa 240
 aaaaaaaaaa aaaataaaat aa 262

<210> 56933
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G7

<400> 56933

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 agagcctgtc aggcctgtga tcaccagcat caatagagat gtcagtcgtt gctagagatt 120
 tggaccccat ttgtcgagaa ttttctggtg ttgcgccgtg cgatacacia catacatgaa 180
 aatagaatat tagctgatct ctgggggtag tgacgaggaa tgctgcgtgc aagtaggttt 240
 tcgtgtatgc tggattgttt gccgactgac tgagcatgtg aagcctcaac tcaacattca 300

aat

304

<210> 56934
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-A1

<400> 56934

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agaatgcatg caggtccatg cgaatgaggg tggcggtact caaactcggg gtggcatata 120
ttggataatc ttgcccgtg gatatctggg ttcattcttt tggggaatgg tgttcatact 180
tgcattcaca aatctcctca ctacaagaat tgcagcgggt tgtttcatac ttgcactgtt 240
tattgtcctt tttgttgag acaattgggt tcttcgctgg ctctgccttg gattcattgt 300
attcattgct gttgtttggg tcatacaaga atttacatct ttccatattc tgaaatatgt 360
gatcttattc ataggtgtga tgaacagctt aattttcggg ttattgatat ttatgacgac 420
tttga 425

<210> 56935
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-A11

<400> 56935

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tttgttatta tgcttt 76

<210> 56936
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-A12

<400> 56936

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tgggtttgtt aaaaaaaaaa aaataataaa aaaaagaagg tttttataaa aaaaaaaaaat 120
aaataaaaaa aaaaaataaa aaataaaaata aaaaaataat ttaataatta atcaattttt 180
attaattcat tcatataatt attttactat tattattata ttatataaat aattaattat 240
taatctattt tttttattta tataattatt tttatttatc ttatttattt ttttt 295

<210> 56937
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-A7

<400> 56937

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catacagagg tggtccgcg agctccgtga ccacgcggac tccaacatcg tgatcatgat 120
ggtcggcaac aagtccgacc tgaaccacct gaggtcgggt ccagaggaag atgggcaggc 180
gttagcggag aaggaaggcc tatccttcct cgagacatcc gccctcgaag cccttaacgt 240
cgagaaggcg tttcagaccg tcctctccga catccatcag atcataagca agaaggcgct 300
tgcagcccaa gaggcagcat gtagtggacc 330

<210> 56938
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B1

<400> 56938

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ctccaagtgc tggccaagg tcaaggcgat caagaggcat caggatagga acattgtgga 120
acaccgcagt catcacggac gttcaggaag catgcgccta tgatggcta 169

<210> 56939
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B10

<400> 56939

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attctgttca atgtctccgc ttccatggca ttggtgctt tcattgcgct gggctctaac 120
tcggtgatct ctgcttactg cttcttcagc taggtttcat agagctaccg tcgtgcattg 180
catgatgtga ataatactac ctgtatgctc cttgcagcac tgaaccttga ttcattgtcaa 240
attcctacac gatttctgta aaatccctaa actccaaagc gggcctatat tgttgcagca 300
cattgagtca aggttggcct ttaaaatt 328

<210> 56940

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B11

<400> 56940

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gtgctttggt atcacaactg ggtgggaacc agcagaagcg gcttggagga tgtctaccgc 120
cttggaaagtc cctttgagct tattgagcta ctacatagc ttgtgcatga agttgtgaca 180
tctgcaggct gaagctatat acagttaaaa aggcacggt acgcacctgt atctgtaatc 240
attatgttta tccactctat gtcta 265

<210> 56941

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B2

<400> 56941

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atatttaatg tgatattctc gtccaaggcg tttgttgctg gcttcggggc atattggctg 120
gacaacacta ttgacaggca tgaagcttaa gtcaggagaa accgatgcta ccattgggtg 180
gacaaattcc ggtcgtacag gaccgatata agaagcgagg agttatattt cctgccattc 240
aatctgaata 250

<210> 56942
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B3

<400> 56942

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 ttctaggaaa tgataatctt ttttcatctg gtgatctaac ggcatagaagg aacctttggg 120
 tgctgtacac agttgggttt gttagtgccac caccatgccc ttgagcagta tgctgatcac 180
 tgtaagtaga agcgtaatgg ccggaacccg gtgtgtcttg acgttgctcc agacgttttt 240
 ctttgccgta gaacgttaag ggcatagttg gaaacataat ttttttagta tcaagataat 300
 accgtgatgg caacgactgc tatacaagca gtctttct 338

<210> 56943
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B7

<400> 56943

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 gataccctag ctcccgatct cgatggcgaa ccgtcgcgtc ttcttgga ca tgaccgtcgg 120
 cggcgccccg gggggccgga tcgtgatgga tctgtacgcc aactaggtgc ccaagaccgc 180
 ggagaacttc cgcgcgctgt gcacgggcta gaagggcgtg ggcaagtccg ggaagccgtt 240
 ccactacaag ggctccacct ttcacgtgt catccccgag ttcattgtgc atgacggcga 300
 cttcaccgc ggcaacggca ccggcggcga gttcatctac ggcgagaagt tccccgacga 360
 gaagttcgtg cgcaagcaca ccgtccccgg tgtgctctcc atggccaacg cctggcccaa 420
 cacc 424

<210> 56944
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B9

<400> 56944

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atgaagtcaa agaaaagaaa gggaaaagaa agtttgggaa agttcgtgca tactattggt 120
gcagacacaa tggttactgg agtcagaagt tgacatgtca tggttgaaca ggatcatcgt 180
cttctgttca gttaggcctt atttttgcta gtcctcgaac taatggaaaa ctattccatc 240
tttaaggccc catcaaattg taatgtttta ctatgaaaag gttggctcac ctttgtgt 298

<210> 56945

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C1

<400> 56945

aattcccggg tcgacgccac tcgtgcgaac gactttgggg aaaccgaagc cagctgaagg 60
aacttcctga atcgaattgc ccaggagcca acatacctag agctttggtt ttccttgat 120
tgaagcaagg atatgtggaa gcgctcggca catagcctgc tttggcactg cgagttgaaa 180
ctaaatggaa aacggaggcc acctgacgta aatgagtgcg attgtaataa attgtatgta 240
gttcatagct gggttggtat cagagttcac catttcgttt ttactgtagc gaatttcgtt 300
ttttaaccaa agtttgacta 320

<210> 56946

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C11

<400> 56946

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gtcccttagc tttggagact tgaaccactt gagcagtgc aagatgagtg gtgtcacttg 120
ctgcctacgc ttcccaggac agcttaactc tgacctgcgc aagcttgagc tcaacctgat 180
cccgttcctt cggctccact tcttcatggt cggctttgcg ccactcacct cgcgtggctc 240

gcagcagtac cgtgcactca ctgtccctga gctaaccacag catatgtggg atgccaagaa 300
catgatgtgt gctgctgacc cagccatgg tcgttattct acagcccttt ccatgttccg 360
ttgcaagatg aacactaaag aggttgatga gcaaatgat 399

<210> 56947
<211> 246
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-C8
<400> 56947

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aaaaaattta aaaaaaaaaa aaaaaaaaaa aaaaaaaga aaaaaaaaaa aaggaaaaaa 120
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaac aaaaaaaaaa actaaaaaca 180
tcaaaaacaa caataaccag aagaaagcaa cgaagaaaga cctaagaag agaaacaaca 240
agataa 246

<210> 56948
<211> 55
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-D1
<400> 56948

aattcctcgg tcgaccact cgtcctatgt aggaagtctc gccgcaagct tgcac 55

<210> 56949
<211> 327
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-D5
<400> 56949

gaattcccg ttggacgcac tcgttcgcc acgcgtccgt ccacgcgttc gcgcactcgt 60
ccggtgtgaa gacgtactgc aactgggcca ccttccccgg gctctacgac aaatcgtagc 120
tgattggggg atgtgatatc gttcttgaga tggataatag cggatagctg aagtcgaccc 180

tgtcagagta gacacctagc tagcattctt gctttgctgg cgttttttatc acattgtctg 240
cattggatca ctctactctg gtattcatgc cattatattc atagatccac tttggtacta 300
gttctgcatt gccacattgc tagaatt 327

<210> 56950
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-D8

<400> 56950

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ggcgcttacc gcaggggaacg cccagctgtc tagggggaga tgtacgatcg aacaggggaag 120
tgccactaaa catgtgctgg ataagggtgc cagcaacatg gtagcagcgt gtgggggaacc 180
tgaggagctc ccattataat tgaagaatct cttggagaga cagcagacga ggtaggggca 240
aataccggcg actagagtaa ccgctgctac cacgagcatg gtggtcggga cggcaccacc 300
atgctctttg ctcttcaggt caaccttttt tagcgctatc gcaagaagca ccgggcagac 360
catcaccacc gttct 375

<210> 56951
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-E1

<400> 56951

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tccatgaaag agctgcttca atggaagaaa agcagtcctg gccagagata ggagatttgg 120
tgaggaggtg agaaaaggta gttagtaaag aggttaagcc agcaaaagat gaggtgatcg 180
acaaggacct attgcaggcc ttcaggtact ttgacataaa tggagcagga tatctcaagg 240
ttgatgattt aaaatgtatt cttcacaaca tggggaagtt tttatcaagc atggacgtga 300
aggacttggg tcaaattgct cttgctgaga gcaattctgc aagggacaat cgcataatct 360
atcctaagct tgt 373

<210> 56952
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-E10

<400> 56952

taccggttcg gaattcccgg gtggagccac gcgtccggct ccctcaacca atgatgaaac 60
 tcctctatct gtagaagaca agaatggaac tgctggggta caagatgctg ctgaaaatcc 120
 agaggcagaa gaaactaaca ctgctgcaga ggaaacacct gctgtagagg aagcaagtga 180
 gactaccgag gaggaagagg ctgagaaacc tgagatcaag atcgaaacag ctccagcaga 240
 ttttcgtttc ccaacaacaa accaaacaag gcattgtttc acacgctatg ttgaatatca 300
 caggtgtgtg gctgcaaaag gtgaggatgc acctgaatgt gataagttcg ccaagtacta 360
 tcgat 365

<210> 56953
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-E12

<400> 56953

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 gaacttgagg tccggcaatg gggaggggtc ctagtctcag gctcaggctg ttggatgcaa 120
 ttgatcgttg cagtctctgt cacttgcttg ctcatgatct ttgggactct gagcatcaca 180
 aggcgttttc actgatgctt atctcggtaa gaagattcgt tagcctcttg cctgtgatct 240
 caccatttac tctaccctgg gaatggaccg gttgcattgt aacattacgt ttacatgagt 300

<210> 56954
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-E5

<400> 56954

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 gttcgacagt tggatttttca ttcagcaciaa ggggcatatg atcatgctca atgatgtcta 120
 atatcagact acttgtcctg acacctgtat tcaatgtcat cttcatgcag cgaacgtttt 180
 gctcatgaga ttaggctatg atgtccttca tctgcgtatc attatgttac ttgatctggg 240
 tgtatcactt atctttgcat gttcaccttt ttttttacca tcttttagacc ttgttctcta 300
 gtcaccttca gattttaagc tatgaatatt ccttatttac agttgattta ttattagaat 360
 c 361

<210> 56955
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-033-Q1-K1-E8
 <400> 56955

tcgacccacg cgtacgatca tattgaccaa tttggcttga atatttgcta aaaaaatgta 60
 attcacgtgt gatctctctc gggctctagcg ttacagcagc aggcacaaga cgcatactgc 120
 ttaatgggtca caaacaaggc ttacagtcac agtcctacga acaaatttga agctaattctg 180
 ctcttggtac gcctaacaaa tactctatcc gtatcttttt agttatagct ggatagttca 240
 atttttgcac tattcatcga ctactaaaac gaaacttaca tagttagtgt tacacccttg 300
 tt 302

<210> 56956
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-033-Q1-K1-E9
 <400> 56956

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 gtcttttatg atactaagag gaaaccttca gcgcaggaat atgtaattgg tggccatgta 120
 aaccaggaag ggtttcccag gaaggcatca aggtatgagt ttgatgataa taggcctcag 180
 caaaatattc cagacagtca gcatttgcca aggatttata atacagattt tgagaattta 240

atatatccag atagttcatg aaatacaagc aaaatggaaa ctaggatgac acatggtgga 300
atgctagagt atgc 314

<210> 56957
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F1

<400> 56957

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aggggttcttg agcgaatgcc gcatggtgtc actgctcatg ctgctcaaat gtctagcgga 120
gcaccaactg tctcaggccg acgtcaagct cctttggtgc cattgcaggc tgtccttgta 180
gctgccgact gcaatcccaa atggttaaca aaacacatac caacactagc gtctacaagg 240
caggtaccgg tattgtgcgt gaaggacaac aagggatgct cagtaagggtt aggccatgtg 300
gtgaatgtca gaacagtcct tgccattgga gttaaggcca aagatagcgt tctcaacaag 360
accattgttg agttcctgaa agacagttaa ct 392

<210> 56958
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F3

<400> 56958

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tgaggaggctg tcattgacat gtatgggcaa tgcgttatat tcattacagt gactggcatt 120
aacgtagatt agcgaatcac ggtaaataca ttcattcttg ccagtatcga tggctgtcac 180
tatatttcgt tcttacaaaa caacatgcat ctctagagat cttgttcttt aaa 233

<210> 56959
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-G1

<400> 56959

ggtcggaat tcccgggtcg acgcactcgt tcgcccactc gttcgcggaac gcgtgggttg 60
actattaggt cagtatctgt ttgtggagac tgggtgtttg atttatttag ccgtttgtga 120
ctggtttag ctagcgggtgg tgcgggtggtg atgttcttga ggcatgaata atgctacatg 180
catgtgatgt atccatgttt tgtgtgtggt aaacctgttg tttgtataag ctgtatgcat 240
gtgggtcttt aatttgtttt gaaagcaggt ttacgttatt gaaaaatata tattatatat 300
attttatatt tcttatatat gtaatttatt ttttttatta ataaaaaggg cgggctttt 359

<210> 56960

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-G4

<400> 56960

ggtcgacca cgcgtgcgga gaggcgcgcg ctgcccaacg ccagggtttt gatccatcat 60
tctctgtgct gtgcgcgtgg tctggctact gtcactctga tctcaggcca attagattct 120
caagctgctc taccgtctta acaagatcta ccagtagtca cacactccag cccat 175

<210> 56961

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-G5

<400> 56961

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tcgatgcatg tatttctaaa gggagagctg aatttgaagt gtttgtcctg gcttattctc 120
ctgaggaatg ggaactggct acattggtgc tcacacgacc taattatcag attaagttca 180
aacagaccgg ttatgttgct attgacgaga agtactcaca aagtctacag acaaaaattt 240
caaatgggcy cacaactcag tttgttttaa taactgcggg tacaactctt tcatttaaca 300
cacatggaat ttcatagcca aacaatgagg atttctatgt taggttacgt gatctaactg 360
tattagtcac gataactttt cagaaaaagg ctctagatgc ct 402

<210> 56962
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-G7

<400> 56962

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 ggaggttcaa cagtctcagg gtgaatctgg taaaggacgg gtcggtaaag ctgggtgtct 120
 agtgaaaacc gtaccgactc tcgttcttgt gtgtgtgtgt tgtgtgtgtg ttcattgtagt 180
 ttttagtcct t 191

<210> 56963
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-H10

<400> 56963

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 ccgcccacgc gtctctcaaag gacgtgttgc ggctgcatgg gagaacggaa acctactgga 120
 catggtcgaa gagggtctat caccaacatt tgattgatgc ctgaatatca atatattcgg 180
 gtgacatggg gttgatgttc aggagccaca catgctcatt gccaatggag ttcactcctg 240
 tcttttcgaga accaaaatgc cttgggtgtt aagtgcgtg ttgcatgatt cttttcctcc 300
 gccccgttca gttaatatat atgctactat ggatctaccc ttttggacgt ttttgggtgct 360
 t 361

<210> 56964
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-H2

<400> 56964

ggaattcccc ggtcgacgcc acgcgtccga gaactcttcc tacttcgtag agtggatccc 60

caacaacgtg aagtcgagtg tgtgtgacat tccaccaatt ggctgaaga tgtcctccac 120
attcgttggc aactcaacct ccatccaaga gatgttccgc cgcgtcagcg agcagttcac 180
ggccatgttc aggaggaagg ctttcttgca ctggtacaca ggcgagggta tggatgagat 240
ggagttcacc gaggcagaga gtaacatgaa cgacctggtg gccgagtatc agcagtacca 300
ggacgccact gccgaggatg aggagtacga ggaggaagaa gaagaagagg aagagacct 360
agtcattctc cgcaatgctt ggtacagata tgatattcct tgtatcgctg ttagtactcg 420
tcagtttgag gttcgtgtgg tgatgcttgc taggtactag atggggt 467

<210> 56965

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-H6

<400> 56965

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aaataaaacc tgtacacgtg tctggccaga tcgtgccgtc gatcgctctt cgttgttgat 120
ttttggttgt attgatcgat ccgtatgtgt gcgtgctgt gtggcgttgc tctttcttct 180
tttgtgtagc tgtgccctgc caccggccga cgtgctgca tgccatggtg gcgggcagcg 240
ttttctaagg tcatatactg ttgttgtgtt taagtaaaaa aaaaaatcat taatatatat 300
tttttaatta ag 312

<210> 56966

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-B12

<400> 56966

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cttgcttaga atacgactcc aacaaagaga gcagcgcgaa ggaattcaga gggtagagat 120
gctccgttga gtcattcaa gaggcgacgg cagtctctta tggacgatta tgtgggctcg 180

ggaaggcgaa agagaggggtg atgtgatgtt tgacatcctg cctttggagc tctcagcgag 240
atgcagtctc tgcaatgctt taagcccgtg cgtgctgtgc ttagtttctt gtgcacgtga 300
gttgaatgcc tcaagggctg gtgactttgt agtgtaagtt atgcaacgat gacatagatt 360
agttattata aatcctaaat gaggtatgta tgcgcatgct gtattgtagt gctgtagatt 420
cngacttcgc aattgcaact ggtgcttcac ttttgggtcaa tgatgatgcc ttt 473

<210> 56967
<211> 305
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-C1
<400> 56967

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acactacttt tctcaatgaa caaacacatt cactactctt aagaacattc ccaatttctt 120
tccccacntt ttatctcaca aatattttta ctactcatac tctaattaaa cttnttttta 180
aaattccaaa aaaaataatc atacttcaac aagcccctaa aatttcatca catttctttt 240
tctctctttc tatttatcat ataaacaaac actaactctt acaaaagcaa tatctatctc 300
acatt 305

<210> 56968
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-034-Q1-K1-C12
<400> 56968

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caagagggta cttatggaga ggggccggag gtccaaggct gagagggcga gatagaatac 120
actttcagat cagtttgagg ccaagcgtgc aaagagcaag gcaatccgtg agaggaagat 180
tgctaggagg gaggaaaggc tggcccaggg cccaagagaa ccaacagcac ctgtcgcagc 240
cccagctcca tctactgggg tgccaaagaa agcaaagaag tgaagtatgg aaacaaagct 300
gtagcttttt ggtactatat aagcatgact ttggagcacc tgaagtattt tgctgttcta 360

tagtttcgtg tctcaatatt ctgagtcttg tatctctacc gttctgttgg ataatgca 418

<210> 56969

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-C2

<400> 56969

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tgcttatacc aattcttcaa gagcgacaca ttttgatatt gtctgtaaga agctcgagtg 120

cacttacgag cataacccca acaacgacgt caacttgacg catttgcaact tatcactact 180

aaaactatca caactcacta acagacccaa cagatt 216

<210> 56970

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-C6

<400> 56970

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tttaaaagat tggatagctt tcagccatgt gacatacatg aactgaaacc tggaacacac 180

ttctttgctg tctacggtga caacttcttc aagagcgcta gttatactat agaggttgta 240

tgtggtgaat cttttcctgc cgaaaaggag atgatacgaa atggggaggc cttaaagcat 300

gccatgtaat gtctgtacca aagccagtat ttgcaaggat agaaaccgag gtggaagagg 360

aagcccaagc aagttcaa 378

<210> 56971

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-C8

<400> 56971

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gcgggtcgga gctggaccac ggcgtggcgg cgggtgggcta cggcagcagc aaggggcagg 180

actacatcat cgtcaagaac tcgtggggca cccactgggg cgagaagggc tacatccgca 240

tgaagagggg caccggcaag ccggaggggc tctgcggcat caacaagatg gcatcctacc 300

cgaccaagga ccattgatgg atcatggacg acggagatca tatctatctt cccttccctt 360

tcatccgact ctttcgattt ccatcgtttg ccccttttct ctgaatgtgt gtgttttttt 420

tatatattac tgtgtcaagt aatttctcga t 451

<210> 56972

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-D10

<400> 56972

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ctttgtgcat cccggaccat cggcatctcc cgccagaggc catgtggcat ggtgagctgg 120

cttcacnaa cgaccatctt ctagaagctg gcccggcgag gcccgccaat gtcgcgcg 180

tacaacaatg aagcccacca tcacctctc tcgagatcca gacctccgtg cgctcgtgc 240

tccccggcga gtcgccaa gacgcccgtc ctgatggcac caaagccgtc accaagttca 300

cctcctcta ggcttgacg ctgcacctt gtaggcttct cttgtgttga tgttcgcctt 360

gtgttgtagt tagatgttgc tggtttctct gtcggcgctg ctcttctttt gtaggaactg 420

cgtcatgtaa cccaacaagg acttgtttat ttgtgaatc 459

<210> 56973

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-D4

<400> 56973

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 tgatgcaata aatcatgtgc acaaagtgtc tgaagtacat gtttggtgag ccatatgcct 120
 aggttttttg gaccggatgg gacaggatgt gctgagtttc ctggagaatc gcaaagaaaa 180
 caaagcctgg tataaagggtg cacgagtcgc aatctcagta ttggatgata cttttgcata 240
 ccagctgcaa cagctgctag gtaatacaat cccaccgaag gacctagagc caccagatc 300
 tatcgtggaa gttegtctta ttctctgcaa agatgcaccc cgccagaaga attctagttt 360
 ctattattga tgatcaagct taactgtaca tagtatccat gcgcttcgca tgcagctttt 420
 ctcttgagaga gag 433

<210> 56974
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-E4
 <400> 56974

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 ctatgagacc gctgcctggg cttggcgtct gccctgcagc aagacgggtg atttttgtgt 180
 atagataggt gaaagtttgg gtgatctgca cgcagtctgg gactggattc tgttgctgct 240
 cctaggtgca cctgcctgcg aacttcaact aacctacgac ctggtactca aggtacggcg 300
 aattcgtttg cccggaattg tatatgagaa tggagcccgg gaaggacgag cgggcgtcng 360
 ccggtttgag ctagatcttt gggatccttt tggcagccat cttttcaatc tgtttctcca 420
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<210> 56975
 <211> 390
 <212> DNA
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 <223> Clone ID: LIB3088-034-Q1-K1-E7
 <400> 56975

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 cctagccagc cggcaaagat gagctgggtga ttgtaatgag gaggagagga ggccactgct 120
 accctactac gtaccctcct ctttgtgtgc tgccatccgt ccccgttaga cgatcgagga 180
 gagaataacg catagctctc tgctcccggc ctgtcttctg cgtcccggc cgtttaattt 240
 actagtgtgt tcgtcctata tgttttagcag cagcaggtgt attgtgcggg tatgtaatgg 300
 tattgcaact atattgggtg taaaaccata ataatgtgg gcaaatatgc aaggaaaaaa 360
 aaaaaatata aatatataat aattaaatta 390

<210> 56976
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-E8
 <400> 56976

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 cttacaattc tttggctgca caagggttgg accattttgt tcataaattg cgatttaggg 180
 cagccgtatg cagtcatcca tttgtatatt cttccattgc tgtgataaga tggtaagaat 240
 gctcaaaatt tttttttggt taaatgaaaa taagaaaaac tcattttgat tctaaaaaaa 300
 aaaaaaaaaat aataaaaaata aaaaaataat atgggcgctc gttctaaagg atccaatctt 360
 acatactctt tcattcaaca tcatatct 388

<210> 56977
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-E9
 <400> 56977

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catcaacaan ttcttctagc aattgaactc tactaatcta accttcaaaa tgaactctta 180
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tacogctcaa caattatcat cactatcacg catcaaactc cattaccatt gttagaccgt 300
cttctattca aattgacttt ttcaacacta ttaacccaaa attcacacca cacctaaatt 360
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tattttata 429

<210> 56978

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-F11

<400> 56978

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tccttccctc ttttgcgtca ggaaggagca ggttgcatat ctgatctgag cactgtaatt 120
atctcttcag ttctacaaa aaaaaaaaaa aagtataaaa ataactataa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaagtaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg 240
ccgttttaa 249

<210> 56979

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-F4

<400> 56979

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cgctgcaagt tccgggcgcg tgtgactggc ggcggcgcca tgagctccga ggtggccagc 180
tacgtctcct ccgttgctac ggccgagggc ggcgacgccg aggtggacga cgacgacccg 240
taccgccacc accggcagct caccgccgac gacgacgcgc cgagccacgc taggatgatg 300
gacatcaact agcggccggc cggcgcccg ccatctcgta ctcgtagctc atgcatgcaa 360

catttttttc cctccttctc ctctctcccc agctcgccca tgcattgcact cctttctggc 420
tagcaagcat ggacgagagg ccgtgatgga tggatc 456

<210> 56980
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-F6

<400> 56980

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ngtttggcgt ggcttcatca caggtgcggc cgtggcattc ttcattaggaa cattagttcc 120
aagtgcataat tgcttgatga tgactatgag cctaagattt ctgattttgg cttggcaagg 180
cttatgaatc ccatcgacac ccacctgagc acatttgtga atggtgagtt tgggtgactta 240
gggtatgtag ctccggagta tacacgcact cttgtggcca ctccaaaagg ggatgtgtat 300
agctttggag ttgtcttact tgaacttgtt actcgtgaag agccacaca tgtgtcaaat 360
gcgcaaaaaa acttcaaagg gaggttggtg gattggat 398

<210> 56981
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-F7

<400> 56981

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tttttcacat attccatatt atatataat attatcttaa tcatagcctt ctacacatac 180
acttctacta cttttcatca accaaaaaat tacaaaaatg agtgtctaca atataaatga 240
ccctacaatc ttttcgaaat atataaccaa tatcaatttc tttctactga ttttaattat 300
atatacncaa cttttttttc taatcaaag tcaaaaataa tottaacttt gaaacctcta 360
cttacttcac tttattatac ttctccata ttattttacc aatttaaatt tattatatca 420

aaccttcctt atttccattt taca

444

<210> 56982

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-F9

<400> 56982

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cctatcaacg tgttcttgta cgggagggcg tgttttagga tnnctacta caaccatgtc 120

aagctgcatg cgctcaatgc taatgaggca cagaagaaag ccacacatgc ttattattat 180

gccgggtcgc tcttgcata ggcgatgga cacatttatc gcaagatcga caatcaagcc 240

tagagggcca gatctgatcc tggcgcccc atattgggca tctgatgcaa ggtgcaaaga 300

ctgggtgtttg gtctgcggtt gctttcaagg agttttttgc cggttgcttg cacatcttta 360

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<210> 56983

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-G11

<400> 56983

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tctaacaaaa aaaaaaaaaa aaaaaaagaa aggttctaac caaaaggggg tcggggccac 120

acatcacact tcctcttaca tacaacatat tacaactcaa ttacgtcct tcttaaataa 180

aatcaacttc ccctactttt ccatcgatca tactcataaa ccccttaaca tccccatttt 240

aatcaacttc ct 252

<210> 56984

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-G2

<400> 56984

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tcctccccctg tgagctttcc aatcactcct tctcctatgg caccatgtgc ctcaccaagt 180
tcactttcttc ttatgctcat agtactaggg tgggtggtgt tggtagacgt tgctcaattt 240
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ttacattttt ccacgtcacg ttttgtttga tgggtgcattg ttccaaatca cgtttttaaat 360
actgcattac tgtttcttac atttaacaag ttttattcct tgaatttttc aaactttaat 420
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<210> 56985

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-G3

<400> 56985

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ctctggcact gagagccaca tgagtagctc tttttgcaga tggatggcgg tggaagcgac 120
tagtccaaag agtcttgagg atttacgagc tagccttgta ggttgcaaaa tatgcacgta 180
tactgccgat gaccaatgat aggatcgatc ctgcgccctt agttgataag tggccatgat 240
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acatatagat tgttgtgaca tttatttgct tgctgtttcc acaatgtact gtcttagact 360
tgtagccata tgctagttaa ttgcttcaag agcttgatth caatta 406

<210> 56986

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H1

<400> 56986

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 cagccgattt tgttacatat ctaggccatt cagttgtaaa actgccatct taagtgtaaa 180
 tacgtgttta ccaaagggtg tttttgtcca tttcacctta tgagcttctc tataacacac 240
 agttaacact taacagctac tccacatttg cagtctcctt 280

<210> 56987
 <211> 71
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H12

<400> 56987

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<210> 56988
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H2

<400> 56988

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 tttttaaaaa aaaaaaaaaa aaaaaaaaaa gagtggatta ttaaaaaaga aggaaggaaa 120
 cgcccccccc tctttaattt caaaattcc atacccctt tctccccaca ttatatcttt 180
 tttattttcc cccctattta attttctctc ccccttttta cacaaccttt actcttaaaa 240
 ccccttattt tcccaaattt atatcccttt ataacatata cctttttccc catttcgttt 300
 tatccaaaaa acccccacac ttttccctct tcaaaaattt tccacaccct atttccaatt 360
 ttacaccccc cctatcactt ctttttaata ccggttattt tttttttctc ccactatttc 420
 cccctttact tttcatttcc ctattacccc ccccttttca tttttctccc ttc 473

<210> 56989
 <211> 426
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H6

<400> 56989

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tggtacgagt agtgccatgg cacacagggc tgttgatgct gtaatgggtc tccggactgt 180

tcggcatgag attgttatct cagaagctgc tgctgctgcc cctcctgctc cagtgatgaa 240

cgctaattgct tgcagcatcc attctaaggc ttccaagat tgtcttaaca actatggcag 300

tgagatcagc aagtgccagt tctaccttga catgttgaaac gagtgccgcc gtgggtgttgt 360

ctgcctgagc ttttgctcca attgggatta ttcattggatt ctcttttcac tcccatgtat 420

ctcatt 426

<210> 56990

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-H7

<400> 56990

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acgaagtgtt cacttgcccc gtcattgggat ccaacagtaa ttgaaagttt tatgggctaa 180

aaaacagcgt ctacatctgg tgcccctacc tgtctttgtg attttttatg acttttatgt 240

tcttgatcgt tgaaccgcag tgaacaacgg ttgttgcaag ttccagggat atctntggaa 300

gtggtaaaca aatgcgtctt atttctatgt aatattagac cccgtgcgtg tgtggtttcg 360

aggtag 366

<210> 56991

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H9

<400> 56991

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aacaaatgcc atattgccaa gatcagcaag ggaaggatca accatctacc caccatattc 120
cttgaagacc tactggggct tctctcactt tgaaaacca gccagggcg ctgtgggatc 180
atggtagatt aatgcgccgc gcacgccgca tatcatgcca tgaacttagt tgaggccaat 240
ctgtgctgct gaaatcaaac acttatgaac gtttgttctg aacatcactg gaactctcca 300
tttgcttgta tgacatgctt atggttcagc gagtttaatt ccaacgtttg gtcaca 356

<210> 56992

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-A10

<400> 56992

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gaactattaa ttcatcatgt cgagcacagc tggccaagtc atcaaagca aagctgcggt 120
ttcatgggag gcagggaagc cacttgatgat tgaagaagta gaggttgccg caccacaagc 180
tggtgaagtg cgtttgaaga tcctctacac ctctctttgc cacactgatg tttacttctg 240
ggaagctaag ggccaaactc cattgtttcc tcgtatattt ggtcatgaag ctggaaggat 300
tgtggagagc gtaagtgagg gtgtgactca tctgaaacca ggggacctg ccctccctgt 360
gtttaaccgg gagtgtgggg actg 384

<210> 56993

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-A7

<400> 56993

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aggctggcca ggaagggcgg cgtcaagcgc atttctgggc tcatctacga ggagacccgc 240
ggcgtgctca agatcttctt cgagaacgtc atccgcgacg ccgtcaccta caccgagcac 300
gctcgccgca agaccgtcac cgtcatggat gtcgtctacg cgctcaagcg ccagggccgc 360
acgc 364

<210> 56994
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B10

<400> 56994

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aagcctggct cgacggaagg gttacgccgt cgtcttgctg tcgaggtcga cgttttgtct 180
gacaagctgg aggggattcg cgtccggatc tgacgaaaac gacgtcgtcg tcatcgccgg 240
cgggtcccggc ggctacgtgg ccgccatcaa agccaggcag ctcggtctga aaaccacttg 300
catcgaaaag cgtggcactt ctgcgggtac ctggctaaac ggtcgatgca tccttttcaa 360
ggcacttctg cattcttcca cat 383

<210> 56995
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B11

<400> 56995

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aatggccaac actaactcgg aagatgatcc ctctctggat ctcatgactg agctccttcg 180
acgactcaag cgctctctca aacctgacaa gcgctcttatt ctcatggcc cacctggatc 240
tggaaggc acccagacac caagcataat agatgagtac tgattatgcc actgagctac 300
tggtgatatg tgaagagcag ctgtagcagc taagaccctt cttggtgtca aggctaaaga 360

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394

<210> 56996

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B2

<400> 56996

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ccaagatgta ccagggcgcg ggtgaagaca tgggcgtcgc tggctgcatg gacgaggacg 120

cccccgctgg cagcggcggc cctggcccca agatcgagga ggtggactaa gcggtttgtt 180

gtcagtcttg agcgtgctgc agttgctggc tggcccagtc gctgccgcga gttatcgtcg 240

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ttttttttta ttgtttatat ttttttttga ttttttattt ttttgttttt tcttatttat 420

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<210> 56997

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B4

<400> 56997

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ggatggggcc agatccaggc aggtacaaga cttgtattac cagcgtgcgc ggtgtaaagc 120

gtcactactca gacgtgagct gaagttgagt gcaaaagata aaaaagagtt tgttgttagt 180

cctgtccctg cgttactgca gattcaaagt tctgggtcac tctaatttta tcttgtttcg 240

ttcaattttg gaggccgtta gcattatgac tcctgtgaac at 282

<210> 56998

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C1

<400> 56998

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tgctggacgg gctggacctg aacgcccgcg tggccgacta ctgcctgcac cgctgatga 120
cgcagtcggg cgtggcggag cagatcctgg acctgggggt actgggctac cgcgcaccgg 180
agctggccgc gtccaagaag ccggcgccct cgttcaaggc cgacgtgtac gccttcggcg 240
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gcgccttcgt cttttatctt att 323

<210> 56999

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C7

<400> 56999

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aacaccttat acacaatttg tatcgaaaag ctatatgttt caccatatgc tgcactacta 180
gcgtattccc taattttttac catcaatgat tcatcact gtaacttgta ctaacacttg 240
aaccaactat aggcataaca ccaatcgat ctccaattca gctcttgatg ccactataca 300
agacgtttat caaaaagaat ctcttcaagg atcacttgaa gagcaaattg gagatcctat 360
attatgtact tt 372

<210> 57000

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C8

<400> 57000

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gcaaaccatg gtcacagaaa caggcaacgt gcatgtaatg cactccttgc ttatgtgtct 180
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 ttttttcctg ttcttcattt ttaactaatt atatttttta tatttttatt cttttttcct 300
 tttattattt attattttac tttattatct tttcttttat tttttttta ttattctttt 360
 tttttttata tact 374

<210> 57001
 <211> 253
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-035-Q1-K1-D1
 <400> 57001

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 cataaaaaca cctattataa caaaccttat actaaacata tgcactaaaa cattcttttc 180
 gcataccaca tacaacattc atactttcca ttctcaaatt atccatctaa tattaaatac 240
 ttactattat tta 253

<210> 57002
 <211> 271
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-035-Q1-K1-D12
 <400> 57002

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 gtcttccaaa atcttccaag gtgacgagct gctctttcct accggtggac aaggcacagc 120
 tgatcgagga cgtgaggcat gctctatata ccgacaagat ctacagttac gcacagggca 180
 tgaacatcat caaggccaag atctaagata caggattggg cctgaaccct agggagctag 240
 cgaggatctt gatggcaggg tgcattatac g 271

<210> 57003
 <211> 308

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D4

<400> 57003

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 tctggagttg caacagatat tcatggacat ggcagttctt gttgaggcac acggagacat 180
 gatcaacaac atcgagaccc atgtctcgaa cgccaccaac cacatacagc aaggtgtgag 240
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 cattatac 308

<210> 57004
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D9

<400> 57004

ggattgccgg gtcgactcca cgcgtcggcg gacgcgtggg cggacgcggg gtcggaacca 60
 ccatccaatg agacgggggg ccgtattaga tgagggggcg gaccacatgg agaaagcaga 120
 caccactaac cctaattcca gactttgctt tctcgcttcc c 161

<210> 57005
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E10

<400> 57005

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 ccatcgccac caggtggctc catggctccc ccttcgcga cgaacacgcc gctgtctcga 120
 ccccttctcc tgctgcttca gcaagatggc ggtgattgag ataaaaacag cacctgctga 180
 cttacgctta cctacaacaa accaaacaag gcattgtatt actcgctatg tcgagtacca 240
 caggtgtttg aatgccaaag gggatgatgc tgggtgtttgc gaaaaatttg ccaagtacta 300

caggtccttt tgccctggag aatgggttga gaaatggaac gagcttaggg agaacgggac 360
gtttccagga cctttctgaa tgta 384

<210> 57006
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E2

<400> 57006

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tgcggggttg tcagtaagcc atggttcatt taagctgctg ctgtacctgg gtatctgcgt 120
cgtcgtcgtc taataaacat ctgtggtttg tgtgtcatga atcgtggttg tggcttcgtt 180
ggtttaaatgg acctgttggtg tcctctgtgt tgtacccaaa actcttctgc agcagtatgg 240
cttgaatcct tgtgaagttt gatgtttgaa cttaaaaa 278

<210> 57007
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E9

<400> 57007

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tcattgaata cgggggcctg atccaatacc atggccacat cgatctcgcc accacccgac 120
ttaatggctc tcgacataac aatatcttaa gctcttataa ccttctacga cttagactat 180
caaacagggc tatcttacgc caactacatg atccaattgg ctggttgcca aacattaaac 240
gcctaaaccg atctaacaca ggcgattccg aaaggactcc agaaaacact tgtactctac 300
cacacttaa 309

<210> 57008
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F11

<400> 57008

ggaatgggcc gggtcgactc cacgcgtcgg cccacgcgtc cgacactccc ctctcaagtg 60
tttgtggata agattgagta gaatggttgc caggagagcg ggtttgattg ctatggttga 120
tgttgatgga actcttacag cttccaggaa ggtggtcaca ccggagatgt tgacattcat 180
gcaagaactg ctgaaggttg taactgttgg agctgatggg ggttctgacc ctatgaagat 240
atcagagcaa cttgacatca cagctaccaa tgactatgat tatgcatttt ctgagaatgg 300
tcttgccggct cacaaggtaa gaaagctcat tggaactcaa agcttgaaat catttcttg 359

<210> 57009

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F12

<400> 57009

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ccaatgaaac actccaacgg ctgggggtgt gctttagcag gtggcaagtg ccgataagca 120
tcacccgccca aggcatacgg accaggccaa gactagctgc atcaatggag tacgctggcc 180
tgcacggaac aagccggaac catgacataa atgcgagacg ttacacggag acgagaaaga 240
gcttcgcaga gccggagaac ttgtacgtgc attgtgacga gcttaagcaa cttcgactaa 300
ccatggagat 310

<210> 57010

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G10

<400> 57010

cggaattccc ggggaaatag acaatggggc tacggcagtc gaacactggg cattgtaaga 60
aacaacacca cagggggcgg gggactttga caagggcgaa ccaacgtctt ggctaacagg 120
cataagcatc acggacatgc caagactaga t 151

<210> 57011
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-G11

 <400> 57011

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 caccttcttg gggggcatat gccatggggg cgtacaacta tgtagtcaga actatggacg 120
 aggaagcagt cagacgtgat gcgcttgatg catagcgtgc tccactggta gtacaggcag 180
 cacatcgtac atagtgtcc tcaccaggcc tacccttgac atcatg 226

<210> 57012
 <211> 73
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-G2

 <400> 57012

 tctcctgaat tcccgatcg acccactctt tcaatcactc ttctcacct acttactcac 60
 acctatctca ttc 73

<210> 57013
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-G3

 <400> 57013

 gtgaaaaaaa gagattatgt gactaacagt ttgctgtaca attatacaac atgaactctc 60
 ttgagtcacg agtttgggtg tggtttgat atgccctctg atccaagaaa agaactcctg 120
 agccctcacc tggaccttga aaggggggct agggggggcaa ggagaaaccg aaaaaagccg 180
 aaaaagggtg caataagttg ctcagcagct gcatgttacc ttcggttcag cattcacagt 240
 ggaaggcaga gctaggg 257

<210> 57014
 <211> 484

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G4

<400> 57014

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 gtagtggttt tgggtgtagtt cggatttagc actatttaat taagattcgg gtccttacat 120
 caacaatgca ttcattgtgt ctcacagtgg cacttttatt gaagtgttcg tagctttcaa 180
 agttcttata tctttttaca tatatgatca cttactttta tagcactatt catagcatta 240
 ttcttcatac ttatgtttat ctctttgttt ttataactta attcttttat ttcttgtctc 300
 attttttttt tttatttttt ttcttctttt ttttttattt atcttatagt tttttatatg 360
 ttttattttt ttgttttttt ttatctttct attatttctt ttttattatt tttctgtttt 420
 ttattttttt taattcttat ttttatattt ttatattttt tatttttcta ttttttattt 480
 tttt 484

<210> 57015
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G7

<400> 57015

ttcccggttc gacgcgcacg cgtcggctat aagcctacat agcgccccta cgattgaatt 60
 tcaactctaa gactatcata atactacgcy caaaatctaa aagtacgagg accattcata 120
 tctcacctca taacttacat ctcaactcag catccatgac aacaagtcac aattttactc 180
 gta 183

<210> 57016
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-H10

<400> 57016

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agtgtaaatt caaagcacat gaggaggggtt catttcgacc ggggcacgat actgatcgga 120
atcaacggca tcagaaggat cggcaggctc gatgccagag ccatcgtcca tagcgaggat 180
gttctgctcc tggtcggcac taccaatcac ataacgacgg tcatcattta ct 232

<210> 57017
<211> 69
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-035-Q1-K1-H3
<400> 57017

accgttcctg aattcccgcg tcgaccact catacagtat tgtatcaaat ctcatcatat 60
taatatttt 69

<210> 57018
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-035-Q1-K1-H7
<400> 57018

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tagttgggtc catgtatgta tggagaggggt taaatgtaat tctttccaat ggtccaaggc 120
ggatgctgct tccgaattag caccatccga ttcttttggga aaagatgtat actattacag 180
tgaaaagtga aaaaaagaga gagttagctc cttataaagc tttctgagct ctacacgtac 240
tacctccgtt ctcggaataa aaaatttttt tatttaaaaa aggggcggcc gtttttaaagg 300
atccaagctt acttacgct gcttgctact tctaaccttt ttatagggtc acctaaattt 360
aaattatctg gccgtctttt tacaattttt 390

<210> 57019
<211> 270
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-035-Q1-K1-H8
<400> 57019

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 cgtcagccct cagctatcga cactacagtg ttatttttagg ccccggttg gggagagtcc 120
 agttcctacg tgacgacgac caccctcagt tcggcgtaga tgaaacacaa actagcagaa 180
 tgcagattgt taggattttt ttttcaggct gcgggggtgga gccattcatt gtcatgggtga 240
 caggactcat ttttgatatt catgtaacat 270

<210> 57020

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A2

<400> 57020

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 cctggtaata tccattgtta ttagccagat taccttcctt gaacttggtg ctgtaatgac 120
 ttctccagaa gccaaatctg ttctgagggt gcggaagact tctgaggaag gcaccaagga 180
 tgtcaagcag gagagtgtgc tcgagccaca cttgagagca ccattgcaga agggaggctt 240
 ccaatcatac atcatctggc tggttcttcc ggtggctctg ctctgcttc tctgtgttgg 300
 gacatatgga tgggtatgaa atctatcctg gtgccgttca aggcttgtca ttttgctcac 360
 at 362

<210> 57021

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A5

<400> 57021

gaattccggg tcgacgactc gttgggggga agatctgtac accctcatca agttcacttt 60
 ctcaggcgga ggtgtcatcc cagacatgct caagtccttg atcaacaagt cctccaagga 120
 gtgaagacta ggggatgtgc atcttttagtt taaactagac ttctgtgcgc tcctcggcga 180
 gtccttgtea tcctgtaggt tttagttgag ctgtcagggt ggagctcctc tgtgtaacgc 240
 ttgcctggta ctgcttcac agttatttgg ttattgtgtt tgtgttgagt tgttaacttc 300

aggggtgcaa acctggatgc ttatttagtt atgtgactac tgctattcg 349

<210> 57022

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A6

<400> 57022

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gtctgggtcg gatctacaaa ctgaagcctc atatgaacag agtcagaggg aaactgaaat 120

ttaaactctag tttaaaagca agttttatgc gtaaaactgg tggaaagaag agcccatgga 180

aatagagact acaaaggcag ggtgctggag tcactagtca gcacagttac tatcctgaga 240

aaaccatgaa ttcatcaaaa ggagttagat taaaagctta gcattgggtgt gttctttggt 300

attgtcatgg agcagattat aggggtgctt catgggtttt t 341

<210> 57023

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-C7

<400> 57023

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aacctctgcg gaggcgcgcy ggccgctggt gacgaaccaa gaagagccga ggaggcagag 120

ccgcggaagg caaagggcag cggctgggaa aaccggaag c 161

<210> 57024

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-D2

<400> 57024

taccggttcg gaatgcccgg cgacgcgttc gcaaagacgg aaagctacca ccaaagcccc 60

gtgtgtcgag acgaggcgag atgcgatgag gtctatcttt tatatatagc ctgtagcgcc 120

cttcaaacac ttcattcccga agtcaccgag ctgagctcca aagaatctag cagctaggag 180
caggccgtgt atacgccatc caccacggca acatgtgtc cggtccttg tcctggagca 240
gcagcagcag caagaagcgc ccgtctcttg ttgtcgtcaa cctcaagcgg cagcagctgc 300
agaagacgcc gccgccgacg ccgcctcgtg cctcagttgc tatcaggagg aagaggctga 360
ggctgaggag gtggcaagcc g 381

<210> 57025
<211> 149
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-036-Q1-K1-D3
<400> 57025

aaaagacata aaacaacaaa aaaaaaaaaac ctaattacaa aacaagacaa aaaacaaaaa 60
gaagcaagct ttaaaagata aacgagcaca gccctaaaaa cacaaaaggc cggaagccac 120
agagctcccc accaaacaac ctagcacct 149

<210> 57026
<211> 325
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-036-Q1-K1-D7
<400> 57026

aatacccggc tcgaccact cgtccgcgag ttactagccc aagaacattc tcaactcctg 60
tgctgctggt tttatagcat cgcattgtcac catctgtctg gtgaggagac tacccttact 120
acaagattgc tgtcctcgac aagctcgatt actgctccag cctaaagaac ctcaaccctt 180
cacgggcttc accaaatttg aagtttgtca aggggtgacat tgcaagtgtg gatctggtga 240
accaccttct ggtcacagag tcgattgaca ccatcatgca ctttgctgct cagactcatg 300
tatatatattc aattggcaat tcatt 325

<210> 57027
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E3

<400> 57027

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gccagagagc tttgcagctc catctggctg ctgtttttaga gcatctgact agctgttagc 120
gctttcccta gtttctctct ctccatctct atctataaac ttgttccccg ttacattttc 180
cttatatccc gaagaccctg atgccagagt atagatacac caaacacctg gtgtctgaca 240
atgtaacttc tcgtcatacc ccttacaag tgactattac agctcttttc 290

<210> 57028

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E4

<400> 57028

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aattcttcga aaatgttcag acttttagaca aaaagtaact ctaatatagc agcttcacac 120
acgcacaggg gacaactccg aaactgagtg ggcagaagac ttaacacggg cgaaaagcta 180
aagccttttg gcgagcatca accggtgctg gagatggagc tgtagcagca gcaccaggac 240
cagggcgggg gcctccttgt ccaccagcag gcctatcctc cctgcgcctg aagcgctccg 300
gcggcttgcg gtccttgccg ttctcacggg atcgga 336

<210> 57029

<211> 196

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-036-Q1-K1-E6

<400> 57029

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ttgtgtcggg tcgnatagtg cggaagctct ttttcacgtt gcctgtggtg tatcttaatt 120
tgcgccgagg ccttatgagt gactagtgtt tcaactgtaa ctggattgca cattttcgtc 180

gcatggaatg tactat 196

<210> 57030
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E8

<400> 57030

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gtagtatata ctcttgggca agattgtttt tgtagccatg actcatagta tgtagcagta 120
tggtgatggt tggattaatt cagctttttt gctcttgctt ggtgttcttc aaaaaattta 180
at 182

<210> 57031
<211> 290
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-036-Q1-K1-F3

<400> 57031

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tagtagacct acttggtgca gttgcgagcg gcatgtaaag ctgaagcatg tccagtcacat 120
ttttgtttga tgtaaaactt ttatcggcta gaattttgac cgggcttaga agaggcagag 180
tatgaggcgt ttggatgtca gttcctttcc cagggtttta ttnctgctag aggtaagtcc 240
ctatgttgga gctctaattg ttatctgggt ggattccagg atttaaattg 290

<210> 57032
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-F5

<400> 57032

ccaacgcgcc cgctaaaatc gcaagcggcc gctctaaagg acccaagcta acttacgcgg 60
gcatccaacg taatacctct acaatagggc ccctaaatt aaatcaacg 109

<210> 57033
 <211> 51
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-F7

<400> 57033

aaaacccggg tcgaccact cgtccgcacg agccctaagc gccacagcca c 51

<210> 57034
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-F9

<400> 57034

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cagcacaaaa cagcacggct gactgtcgca aggaacgtgc aagacacaca ctacgaccgg 180

gcaataagca tggaactatt aagagtggcg gccaaaggaga acagaacgag ctccgctgcc 240

cgatcatgcc aacatgaaca ttaatgaatg tgcgag 276

<210> 57035
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-G4

<400> 57035

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atggaggagc ggtggtggat tggattgtta aagagggctg aaagaatggt ccctctggtt 120

gggcgtgtca ccaaagagtg gccctagagg caaaccttac gtttgctcgt tgccttggt 180

gtgtaccag atgtgtatcg atgacatagg ctggctgctg tatcatcatc agggttgacg 240

ctgaacaaga gatattcaag ca 262

<210> 57036
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-G7

 <400> 57036

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 cctataccat atatacagac gctacggcag aagactttga tgatgctcag cgcgccatga 120
 ttacggatac acatcgatgg aagcaaatga ccaacatata tgatcaaggc tctaacgtcg 180
 agcagcggtca acccttgata ctctggccat ggtgtgggcc aacctaacaa cggctg 236

<210> 57037
 <211> 66
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-A10

 <400> 57037

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 aggggtt 66

<210> 57038
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-037-Q1-K1-A5

 <400> 57038

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 aaagggaggg aactataaaa aagggggggac gggcgtaact tttctatagc ctcccccttct 120
 ttcatttggc ttccccctctt tttatatcct tgctactggt taaacacttt caccacctta 180
 attattcttt 190

<210> 57039
 <211> 374
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-B6

<400> 57039

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gctgtggggc ctttgctgtt gcatccttta tacaatcgac aatatgataa caagagttat 120

cttgaaagta gtcttcattt acttttggtt tctcccatg gtgttgcttt gtaattaaac 180

tctagccttt tcgtttagtt atttgaaatt gtgtcgtcta gtagaacaac tgttggtgaaa 240

agaaaatgtc agatagccac cttagttaaa aaaaaaaaaa aaaaaaaggc cgggcgtttt 300

atagggtcca agcttactta cgcgtccatt cgacgtcata tctcttttat agtggcacct 360

aaattcaatt tact 374

<210> 57040

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-C1

<400> 57040

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gggagggggc tacctactct agagggtcga catcttacgt acctcgtaac tgctacacta 120

taactttttt atagtgaac ctaaatcaaa tt 152

<210> 57041

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-E12

<400> 57041

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cgactgtctc aggccggcgg tgcgccggca ccgctcgcat cgtttgcttt tccttgacc 120

agcagtcttc accgtcaggc tgagctgctt gtaaccgtga atccggaccc gtttgcttct 180

gtaagatttg tgcactcgcc tgagtgtaaa gcaaaaaaac taaaaagaaa tcaaaatgag 240

aagctgaagg aaaatattca aggatctgaa ggaagaaaaa aaacaagctc cgtgaaaaaa 300
 aaatgggggc ggccgggtcta aaagaaccaa gtttaccac gcgtccatg 349

<210> 57042
 <211> 296
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-E6

<400> 57042

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 gggttgtttt tcatttcacg catagtgtg taaattgcac ccttgctgtg aaaatttata 120
 atccttgctg tctgtgttac cttacacttc agtttaggat gtgctgacaa tcagtgtgct 180
 tattatgtcc aaataagctc tctttttttt aacgtttgat ttttagtcnn aaaaaaaaaa 240
 aaaaaaaaaa ataaaaattt aaaaaaata aaaaaaaaaa aaaaaaaatt taaaaa 296

<210> 57043
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-G3

<400> 57043

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 gctcagcagc agccacagca gccaatcag aactgaagtc ctgtcaagat gttgggtatt 120
 ggtactgtc taactgtcgc gcaggagaat gcaacccccg tgggtcacca gctttcgtaa 180
 tttcttaatt tgtgggttaac agtaaaaact ttgttgtatt gcttatcaac gtttgaagaa 240
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<210> 57044
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-H2

<400> 57044

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gccgcccgcg aagaccttat ttttgaagct cgtatgtcca tatggtttgc agaacadgga 120
cgatgagacg gcttgacctt atattccgc gtcctattac ttcatagctt attcgggatg 180
ttctcagaca tgttattccc atattgacga tgcttaagat ttgtactgta ttgtttcagt 240
gacagttacg caaacgatt atgatctaaa 270

<210> 57045

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-A1

<400> 57045

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agtatctaac ataaaaatat tcacatactg gcatggggat tgggtcaaaaa gagcttcctc 120
attagcatct ctgttgatg atgactttgt ggatccatct aaagagctga acctgcaaaa 180
tatgggcaaa tcgagatctg gtgctctgac aacttcata gaccaagtcg cagttatcga 240
attgctggtt ccttcagtat ttagagctgt agtgtcattg catcctgctg gatctactga 300
tcctgatgca gtggcattct tttctccac tgagggaaga agctatcttc atgcaagggg 360
cacgtcggta catcacgtgt ttaaacattg taaggaacat g 401

<210> 57046

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-B11

<400> 57046

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gccttctctt ctgttcgctg ggtccgctc cgctcgggtt ttcaaccatg atgtcgcggt 120
cgtacaccaa cctgctcgac ctgcgcggagg gcaacttcgc ggcgctgggc ccggccgccg 180
gcgccggcgg cggcgggcgg cagaagcagg ggtcgttcgg gctgaggcgg atgtcgcggg 240

tgatgacagt gccggggacg ctctctgagc tcgacggcga agacgagtcg gagccggcgg 300
ccaccagcag cgtcgtcttc gacgcccct cgttcgt 337

<210> 57047
<211> 476
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-038-Q1-K1-B12

<400> 57047

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tgtcgtcttg ctgtctgccg gtcagccgcc gcttcgatgt gcctccgcgc tgaatatncc 120
cttgcccca taagggcctg atccttgaaa ggcctcgcca ctttgatccc ggcggcggtc 180
ggaggggagt ggcgatgtcc gaagtcggac gacacacatc ctactcgagc gaggacgcac 240
tgccggaggg ccccgagtcc gaccttttcg tatactactg caagcactgc gcctcacatg 300
tcctcatcac cgatacccaa ttgcagaaaa tgccaagcg aaagactgac agagcacatg 360
tttagacaa ggctaagcat ctttcaaggc taaatgttaa ggaggcagga aaagtaatgt 420
tgaaacgtgg tgaaggaaag cttgaaaagc agtttcgcat gagctgtgtg ggatgt 476

<210> 57048
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-A11

<400> 57048

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acgaggttct gctttatgga cccgtccttc catctggggg cggcttctat gatgctaggg 120
ccagttcttt atctgcactg tgcctccat ccttgtgtca caacatttta catcgttctt 180
aataatatca ctcttcatg tttctatfff tcaaaaattc ttattctaata aatttatgtc 240
ttaattattg gtttcttttt ca 262

<210> 57049

<211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-A2

 <400> 57049

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 ttaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaattttaaaa aagtagggag acaaaaaaaaa 120
 caaaaaaaaaac gggccccccc ctctaaataa tccaacctta ctaacccttc cattcaacat 180
 attaccttct ctatattttc accaaaattc aattcactac ccctctttttt acaacatctt 240
 aactgtataa accctgtctt acccaaactt aatccccttt aataacaacc ccctttcacc 300
 agcttgctta ttaacaaata gccccacacc 330

<210> 57050
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-A5

 <400> 57050

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 ctctttctcg catgctcctc ctccaccatc cgaaccgagt atgttctggc aggggcatcg 120
 gttcctcaac ttctcctcg cctgcatggg gttcgcttc gtcattctctt ggctcttcca 180
 cttcaacgtc cccggctaac atgttctttg gcgcacatac atggcccccg aataaaaaaa 240
 aactccaaaa aagccattac tccggacgcc gggtcggtaa gttagcggat ctggaagaac 300
 aggctggtgg gtgctgggtt ggttgaagta aaagctcgac atggggccgg ttgactttta 360
 tactgtcatt tt 372

<210> 57051
 <211> 507
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-A9

 <400> 57051

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 catgaactac tggagagaat gtcttgtaac cgtcttatct gatgatgttt tcattacttc 180
 tctgtttaat ctttatatta actttttttt tttttataaa tattattaat tatatatattt 240
 ttttatttct tatttttaat ttctttttct tatttttggt ttatatattt ttaaacttaa 300
 ttttttttat atattttatt taatattttc tctatttatt taatatgttg gttttaattt 360
 aatttatttt atttttttat tttatttcta ttataaatta tattattttt tttatctctc 420
 attttttatt tataatatatt ataatttttt ttttttattt ttattttaat atatataatta 480
 ttatatatta ttatttttta tatttttt 507

<210> 57052
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-039-Q1-K1-B1
 <400> 57052

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 aagcagtgc aatcttctaa agaatgtcga agaggactac ttcacagctc tgcaaagttc 180
 acctgcccc gtataatgaa gaaactgata aatatctaaa agggaacatg caaatcaagg 240
 tgtaaatctt aacagtgcc gaaatctggc agttttgggt gaggagattc tacctgccat 300
 ttttcggttt gtacatatga gcctgtaaca tttgtggttt tttttatatg ggccaggata 360
 gaacttctcc attgtttggt caaggcaagc ataattatcg cctgcatgtt gtattttgta 420
 taaatgttca tcctttaact aaaactcata aatgaagatt gatt 464

<210> 57053
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-039-Q1-K1-B11
 <400> 57053

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 gtagcattt agctagctag ctgccattgt tgcgagagta gctaagctag gctgaggcga 120
 , cgtgggaaga ttcgctcgtt ggtccggctc atctggagag cgaccgcat catgctcatg 180
 ccggccagct cgtggctctt aaagtgtttt aaatcatgtc tctaagttcg tggactgcat 240
 ttcacacttt gttttgcccg caagtgtttg attaattcgc cgaggccacc aatggcaggt 300
 gcccatgttg ctagttaaaa aaaaaataa ggtctgccgc gctgatggat ccaagctt 358

<210> 57054

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-B2

<400> 57054

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 gggtggccta ggagggaagt tcgagtcagc tatttttggt gtagtgctg gcgaatgtcc 120
 tgttatctca aaatacaaag cttcttttct cacctaattc ctaaaatgg aatgtttga 180
 ctcatTTTTT aattcttctt tgaagctgat tgtggactta tctttctat gtagatatat 240
 tctttccttt ttatcatttt ctttttctta tttttttta actaatttaa taattttttt 300
 tttcattttt tatcatctat tttttattat ttattttatt tgtgctttca tttttcttaa 360
 tcttaaatat ttaaatttct ttatatTTTA tcttattata tttctcttat tttctatttt 420
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<210> 57055

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-B5

<400> 57055

gaattcccg ttcgaccac tcctcctaaa aaaaaaaaaa aatatcaaaa atttataat 59

<210> 57056

<211> 326

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-C10

<400> 57056

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 ggcgccacc ggcgaccat cgcgtccggc tgctccggct tgagcgatgc ggctgttggc 120
 cgtcttcacg tacacccgac gcacagtgtt cacggcgccg tcgtcggcgc ggccgaagcc 180
 gaacctggcg gctcccagag ctgccggcca cgggcgcata ataatggatg cgagcgtgga 240
 gtctctgtgg gtgcattgct ggtacaggat cgcgcgctgg tgcttctttc tcattctcac 300
 gctcgtctga gggcggtcgt cttcca 326

<210> 57057
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-C11

<400> 57057

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 gattcaacca tctaaggagc catggaatga tgtttgtttc ctatcatatt tttaaattag 180
 ccacacaagt gaactaggtt aagcactgaa gctattctaa tttctaacta cagcactttg 240
 cttccttctt attttataaa attagagtat ggtaagtgc gattcttagc aactctagtt 300
 agggatggta ttgggtctta ggttttatac tattaaagtt taaggatagg attaggattg 360
 ggctctatct ctattcatct ttgaactaaa tattattaat gtgctaata aattgtgaag 420
 agattttgat tatttccacc ctcttagtct agttaatctt attttccta 469

<210> 57058
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-C12

<400> 57058

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 agtagtgagg gactagttgg tatgtgtagt actgcactat cttttctcca tatgcatggt 120
 ttgccagcgc gtaatgaatg taatgtcagt tcttaaatta taaaaaatta ttattaaatt 180
 tttttaaaat aaaatttaaa ttttttatta tattatTTTT tttaatatTT cttatatata 240
 aattttatat aattctatta tattttttta ttttttaatt atatatttta tttttaattt 300
 tctttccttt ttttttgagg agtggtggtt ttacattctt ttcataaaat aatatagtaa 360
 tctttaattt ttcacatcat attt 384

<210> 57059
 <211> 278
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-C2

<400> 57059
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 tccccacat accctcttga taccggatgg aacatttttc tgtagggggg cgcaaantna 120
 caactagtat ttctgctatc ttgtacagat tacagaattc tccttgcttg cttgagttat 180
 tgggtgaaca tatctctgtt aatttgacac atgatctgac cagcttgtgt atctttattt 240
 tttccctttc ctatctcttc atttcatatt tttccttt 278

<210> 57060
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-C6

<400> 57060
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 ttgtggagca tcatcaccct gcccatgttc cagagcatgc ttagccaccg tggcttacat 180
 gcgttttcca tttcaccttc tacacctact actccttcat ctaggcctcc agcatgttcc 240

ctgtcttatg caccactctt tacaagcaaa ctctcatgtc ttatctcaac ttcttttttt 300

<210> 57061

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-D5

<400> 57061

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ctcactcccc cgcgccgggg ccccgttcat ggtgggccgc acctcctgtt tctctgggtg 120

ggcagctatg gtgccccgcc gtcgactget ctctgggcct cccactgccg gtgatcccc 180

gccccggcgc ctcccgccaa cttcgaagct cgccgccccg ccggttggtg ggacgccgga 240

gccccgctg ccgtttaggg ccgtggaggc ggagatcctt cgagatattg acccgcgtct 300

cctgctcatc aaggatatcc tccactccga tagatacggg gatggcgaat gtctctgccc 360

aagggacgaa aatgtcgtcg tggagaatgc tctgttctac cattcacgct cgca 414

<210> 57062

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-D6

<400> 57062

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catctttcct agacgccatg aacgtggagg aggaggctgt ttggctcaag gaggagatcc 120

atatgctcgt cctgcatcat ccctatggct cttacaaggt caagtttggc gtcctcttca 180

acgtctaccg ttgtgcaa atctttgaag cactatctgt cacctttagg gccgtcttga 240

agagtatgat ctttgacctt ctatggcgag cttcttctgc aagtgtttca tgtctacttt 300

tatataactc tgttgcccct acctt 325

<210> 57063

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-D7

<400> 57063

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ccctgaatcg gaattggtct ttgggggagc tatttttaca cctggtgagg gccatttcta 120
atatcctttc ctataaatgc acataacatt ttaccaaata tccttaatag tc 172

<210> 57064

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-E11

<400> 57064

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ttactttcag aaaaactcaa caccttttta agacagttct attgatataa acaaaaggca 120
accctctttt tatcaattat tacaactatt aaaaataact tacaaattat tattttaattc 180
aattcaaaat ctaaataata ttaattataa tctaaatcta aaataattaa aatcatatta 240
taatttatat ttatatctta ataaattaaa ttataaatat tcattttaata tatatataaa 300
taatataata t 311

<210> 57065

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-E3

<400> 57065

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tctgaagttc cactcacaat ttcacatagt tgctgctact gcaaccggga caaccttgat 180
tagtccgcct ttggacactg attcctgcgt ttaaccgaca gataacgaag cataatgcgg 240
ttatatagcg ggcgctaatt gtcactgagt agttagcatg cagatactac cctcctgtac 300
agctttttta taaatatagt agcagtggta 330

<210> 57066
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-E5

 <400> 57066

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 gttagtcttt atcccaattg tcgtcgctgt agactgtgct tccccacctt cagacaaggt 120
 tggcataaat tccgtccaaa gggaaaatga ggaaatagt ccaatgaagg cgatgaagat 180
 ggcattgggtg ccttatgttc cccttgagaa ccggtcgagc aggattgaca ttttcaaaac 240
 aaatatattc acgctcggat gcacacagcg aatgtctgca ctgaagcatt tcaaaattga 300
 gagagtcaag aagtttgact actgcatgcc ttgtaagctt aatcgagttt gtgcataata 360
 ttttatgacg cttcatctac attattagta aaatggctgc aatggaactc tttgtcaggt 420
 tatttcattg ga 432

<210> 57067
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-E6

 <400> 57067

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 tttgttattg ctgagcggac taagctttca ggcaagttct tttaatgtct tcttatgaan 120
 agcctctcgg ttcattctat ttagggaata attgatgaag tgtacagtac atttcacgta 180
 tcatgtgtcc agcctatatt tctttgaatt tcacatgttt atgtcttttt ctaccgattt 240
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<210> 57068
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-E8

<400> 57068

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aagagcctta aaaatggcat cgtgggttaat attcttggga tgggcgctgc tgttctcggc 180
atgcatgcta ctgttggtgc tttggttagca aaagctctca catcctctgc agtaccctat 240
tatcatgctg cttgccaaag ccctgtcttg gctttagatg ttttcctagt tcatgcttca 300
tcgaacacca tcctgtctca tttccttttt gtggcgagcg ggggtggagct tcttctctcg 360
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<210> 57069

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-F5

<400> 57069

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atctgatgca gacaagggcg cggagaattc aggccagggtg aacaccgccc cccaagaacc 120
gactgcagca actgcgacaa ggggcagatc caacctggtg cctctgctgt cagggtgcaca 180
taagggagct tgggtctccga tgagagaccg ttgctttgtg tgtttagggc aatacctcgc 240
atttgctttg agaattataa tcgtgggttaa cctgacagga cagcgctgtg cagcactagg 300
ctgcccagca cgtagttatc tttccgtttt ttttatggcg gcagggacaa atgcgtgtac 360
ccggttcaaa gtgtaactcg tcattagcgt gctgaacatt gatctctgga gcggact 417

<210> 57070

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-F6

<400> 57070

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tggagaatgc atacaacaat gcgaagacca ttgttggaac acacaacaaa gagcggcatg 120

ctctagccaa cgcacttctt gagcatgaga ccctcacagg agcccagata aagaacatat 180
tagcccaagt tcataacaaa ccgcaacatg aacatactat cgaagcacca cagaaggcct 240
cagtcgcacc agcttcccc gcataccag ctgcatcagc tgctgcagca gcagcagcag 300
ccgccgcggc agcacagcat gcggcagcaa aaagctaagg ggggtggctgg tatgggatct 360
tagcacattg gagcactccc actggtttgc attgtgtata tttcaccaaa caagcaaagc 420
ttt 423

<210> 57071
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-F8

<400> 57071

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aaacttcttg gacagcatct tctgctccg gtcttatggg cttggtttgc ttcttttgct 180
tctcgcctga agttgttttt ttttttaatc cttttaattc atattacttt tatatttctt 240
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tactgttttt ataattattt tttttttcct taataattat tgtgggtggt gtttttttta 360
cattattcat ttccttctca tttctttatt tataattttt tatcgttttt taaaattttt 420
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<210> 57072
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-G3

<400> 57072

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caacgcccct catctccctc taccgagaga ggcttaccgg atggcgccga aggcggagaa 120

gaagccagcg gataataagc cggcggccga ggagaaggcg gagaagacga ccgcagggaa 180
gaagcccaag gcctagaagc ggctgccctc gtccaattcc ttcggcaagg agggcggtt 240
gaagaaggtt aagaagattg ccatgaagag cgtgtagacc taca 284

<210> 57073
<211> 396
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-G4
<400> 57073

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cntatcatgc tataggctag catccgtgct aatattttgt ggcacccctt gatccattcc 180
aaagcgaact ctgttgtgag ttttctatcg ttttgccact gcctacaact gttctgcgct 240
ttgcccttta ttatttttta ttattattct tattaatata tttgggctgc cgtttctatg 300
attatccatt cttatcttac tctttcatgc tacctcttag gtgggtggtgt agtgtcttct 360
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<210> 57074
<211> 82
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-039-Q1-K1-G7
<400> 57074

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cctttatata tcaccattaa cc 82

<210> 57075
<211> 377
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-039-Q1-K1-H2
<400> 57075

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gctgaaagat ggcttaaaaa ggggtgtgctc ctaattaaca gagagcgaag tccaggctct 120
aatggaagca gctgatattg ataacagcgg aaccatcgac tatggatgaat tcatcgcatc 180
tactctgcac atgaataatc tggagaggga ggagaacttg gtttcggcat tctcattttt 240
tgacaaatac tgatgtggct ttataaccat tgatgaactg tcacaagcat gtcatgaatt 300
ctttcttgta aactttcacc ttaggatat gagtaatgaa gtttaccaga tctattattg 360
ctattatgat ttacttt 377

<210> 57076
<211> 199
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-039-Q1-K1-H3

<400> 57076
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tctgtctct tctgtccgc ccactcgtc cggtaaatgc gaggcggtta cctgatactc 120
gctgggtaat gagatttggt gatttgggt gagacatat gtgatttgag ataatctaag 180
ttctgtgggt tcttgatcc 199

<210> 57077
<211> 112
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-039-Q1-K1-H5

<400> 57077
tgaattcccg ggtcgacca ctctacgtt tggaaatttt actgaataat ggaagatctc 60
ttaggttcaa aaaaaaaaaa aaagggaagg gatattttaa aaggggggaa gg 112

<210> 57078
<211> 378
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-039-Q1-K1-H9

<400> 57078

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tcttactcgt gttctacatg accatgtatg attttaacga acagactgaa aacatgaaac 120
aaattcagga tgctttgtca gtcctctctg gagcttttgc tgatttcgac gaggatgaac 180
tgtaagctga acttgaagaa ctggaggagg cagagttgga atctcagctt cttgagcctg 240
ttgcagctcc ttcggttcat ccagtgcagc tcccagccaa caagcaacca tctcgccctg 300
ctccacagaa agttacatct taagattatt aacttgcttc acttcaagct gaaatggctt 360
tgtgatcatg ttctcatg 378

<210> 57079

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-040-Q1-K1-A10

<400> 57079

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tgtttctctt gttaatgacg ataagatgat ccggtctgca tcatatgttc ttttctaccg 120
acaagttcga cgttcaagta cagcggcaaa cggtcgtcca gctgacattg aaatgggtcga 180
ttcactagag acatatttcc ccagatcaaa gcctgactat aatatgtgaa tcgagatatt 240
gagatcatac cagttatgga cattacatgt ctgctacgaa atggaatatc tgtgtatgaa 300
acctttgaca tttcgaggca tgtcagacac cttaggacct aatagcgtaa tctcttgaat 360
ctgcacatct atatgattg 379

<210> 57080

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-A5

<400> 57080

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ggcttctata agcttgacgc caaagtctgc atccagatac gtgctgccga atttgaaggt 120
 ttcaacccca aggcagaact ctgaaacggg ttttaattgtt cttaaacttg ataagtctat 180
 gcgatatact tttgtacaaa atcgtctaat caataaagtg ggcacgtgcc taaggacct 240
 accctacttt gtctgtatgt acatctactg tcacacttaa acagtacctg cagctatgcg 300
 gtgttttggg c 311

<210> 57081
 <211> 220
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-040-Q1-K1-A9
 <400> 57081

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 ttgaccatat tactattagt ccatagatna atgtatnata ttcaacttca accttaatta 120
 acttaacaat tatatctaga tgtcattcaa acaaagttca caatattgaa gaaatgattc 180
 tctcaatgga tgctcaataa gatgtgactc aagaatggct 220

<210> 57082
 <211> 319
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-040-Q1-K1-B12
 <400> 57082

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 tttaggtgaa ctttataagc tcaatgtttc cgtcctatat ctattgaaac tagcatccaa 120
 agaggaacag ggtgattatg tcgggtgatg gtacagtatg cttctgtcct gtgctcaaga 180
 attgaagcat ggcgtggcac tttggcaaga gttttatcat gcaaagtgtct gcgacagagt 240
 agtttctgaa agcggtcact actttattgc tcttggggag atatatagag ttgcacagat 300
 tttatactta tcctttcaa 319

<210> 57083

<211> 330
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-040-Q1-K1-B9

<400> 57083

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gccaaacgac caccacctca gcncccggtc aaatttataa agcccctagc ccctccaaaa 120
aaacccaaaac aataaacacc actaaaacac aaaatcactc tcaaacatca acctctaacc 180
ccataacccc tccaaaccac cactctcacc acctacaaaa cctccacctc tccacaaaacc 240
atcttctaca aacactcata caaccaacct ccattctcct ttactcacca accaaaccaa 300
caactaccac atcactctat ccacacaaca 330

<210> 57084
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-E10

<400> 57084

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acttgctgaa ctgggtctatg atttacatth ataattgaag tctctcactt taatcaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaacccaaaa aaaaaaaaaa aaatgccacc ctttttataa aacccaactt aactaacctt 240
tccatccaac ttaaaactth ttttatatct acccctaaat taaattaaat gcccttaatt 300
taaaaacatt ataattgaaa aaaccttatt ttacccaaat taataccctt taaaaaaaac 360
cccctt 366

<210> 57085
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-G11

<400> 57085

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acggcggtttc aggagtactg tcctggacta tgtagagaga tgctcctctg tgactgtgac 120
cacctcacgt tctgcgtact gtaatctggt aggatgcctg tctctatcat gattcatgaa 180
ggacgattgg tttgtctttc ttcttatcgt gctgtttatt aatcgtgtaa atgtaatact 240
agcgaacgga aggcactggt agctagggtta gctcgagtcc ggattgaatg agaatgctac 300
taat 304

<210> 57086
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-H10

<400> 57086

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atactagtac tgactctgag gctaattgtct cattcaataa ttaaactcct ccatctctat 120
aatacaaaaa tggaacttct taactacaaa atcctgctta aaatccatat gcacaataaa 180
ctaacactac tacatatgaa acacctgctg tatatgaatc aagttatact acctatgacg 240
aataggctta caaacctgat atcaacatcc aaacaactcc accatatttt cttttcccaa 300
caacaaacca aacaaggcat tttttcacac tctatatcca atatcacatg cttgtttctt 360
caaaatagta tgattcacct taatgttata aatttcccca aatactat 408

<210> 57087
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-H11

<400> 57087

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ctcaaacctc tcgcgagtcg aatggggctc cgtgctgttt ttgacctgcg taattaccaa 120
tctgcgtggc ttactgaaca caaggctgcc ttgcttgatc tgtaccttct tgaagcccaa 180
aactgagtat atattattga tgaatgacga catgcaaata tc 222

<210> 57088
<211> 180
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-040-Q1-K1-H9

<400> 57088

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ttactatatg ctaagatgct gtgacggtna tgtattcatt gctcacttgt gttccaaaga 120
ttagcccgac ttgtgtgtgc catgctgaca tcttttctgg ttccatactc atctttacgt 180

<210> 57089
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A1

<400> 57089

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ataccaagga cgattggtga agcaattgca attgatgcaa ccttttttat aacatataca 120
atggttgatg gttgggctgg ggtagctggt gagatattga gattgaagcc actagtgatc 180
ttccacctga aaaacttttt cttggtcaag actgagaaag acaggaaga ggcaatggac 240
cctggaagta ttggttttga ctcaagcgaa cctcaaattc agctgtattt cttacttgggt 300
cttgtctatg cggcagtgac accatttttg ctcccttttg tattgatatt ctttgggttt 360
gcgtacattg tataccgtca ccaggtaagc aagcata 397

<210> 57090
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A10

<400> 57090

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agaccttact cagctattga gattctgttc cctttcataa gagaactgta cataccaaca 120
acggtcgctg ctgttgact accactagta tgcaatgtgg aaccaataag ctttgatgc 180
agcgactgaa acttctacat gtgtaagact gatcagtaaa gtctcgctgg actctggctc 240
attggcgctt acaactttat tcatgaaaaa agatccatta actctaaaat taaaagttgg 300
ccaacaacat gtttctaaag aaacaatt 328

<210> 57091
<211> 342
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-041-Q1-K1-A2
<400> 57091

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gtantagtcg acgatcaatc tctgtacacc cggtagaaaa agttcatgag cttcatggca 120
gttagaatca ggattgagct gatattcatc ccgcttgatg tgtagctagc attcttgtaa 180
ctggaattgt gtgtgtaatg caaatcatgg ggcattaga ctgtaatgaa gaaaaagtca 240
gggctgcgcc tttagaatgc agcttgctca aaaaaaaaaa ataaaaaaaa aaattaaata 300
taaaatatat taaaaaatac caataatata aataaaaact tt 342

<210> 57092
<211> 224
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-041-Q1-K1-A4
<400> 57092

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gtttctctca gtcagcttta tagctccgtg aatgtacatt tatatcgctt tacatttatt 120
atttattttt gtaagacttc cgctatgtaa taatgacata ataatgacat ttatgatatt 180
tgtgacattt atctctaaaa aaaatactat ataaaattca aatt 224

<210> 57093
<211> 299

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A6

<400> 57093

aatacccggg ccgaccgcac gcgtccgccc aggcgtccgg gatgaccagt ttacatttt 60
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 tattgttttg actagagtga agttgcatca gaagttgatg ctgaagcctg aaggcactcg 180
 aaaaatgttg cagatgcatt tctacctgta tggcaatatt tagggagtcg aatatctgct 240
 gtatgtcaat gagaaaatgg gttttcaaaa aaaaaaata ataaaaaata aaaataaaa 299

<210> 57094
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A7

<400> 57094

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 ggtcctccaa ataaaattat aaaaaatctg gtaaaaaaag tatcatccaa gattcacgag 180
 gaaaaagaaa gcccgaatgg tagtgccaag gttttttcga gaaagaagaa acccacagca 240
 gaaaaggaga tcaaagagaa aaagtcgtca ggaaaaaagg tgacaaaagg taaaggagaa 300
 tcagctgaag cagttcttcc cagcaaggac gatctgaaga agaccattac tgaaatcttc 360
 aagaaagttg acttcaacac ggcaactttc agtgacattc ttaagaagct cgacaatcac 420
 tacaaaatgg atctgacccc aaagaaagaa gccatcaaaa gtatgatcca aga 473

<210> 57095
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A8

<400> 57095

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agagcgagca gccgccgggt tgaattgggt tgtttgatcc ctggatgtgg cggctggcga 120
accgcttctt cttccacaaa gattcagaca aaaccgagct tggatagaac tgaagaagat 180
ttggcgaacg 190

<210> 57096
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-B3

<400> 57096

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gccatggatg gtcatcactc aagctaacga gttggttcat gtttgggact accatacaaa 120
ggtagtggaa tggacgattc agattaaggg agcgaaagtt agttcagcta aatttatagc 180
cagccaggat tggattgtgg cgggtactac ccgtggattc ctccacgtgt acgattgcga 240
atcgaggaag gaaatacgcc gtctttgtga acaccgaaa tctatcacgt ctttggctgt 300
tgacgatgat gcccttgagc tgggtgctgtc agcgtccatc gatggcaaga ttttgatctg 360
gaactactgg cactactacc gcgcacgtag aggtagacgt agtacctggc atttggaaaa 420
aacattttga cg 432

<210> 57097
<211> 480
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-041-Q1-K1-B4

<400> 57097

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atttgtatgc aagatgagct tacagtgctn cgcgttcaat ctagcgacca ggtttgagaa 120
taaggtggga ttcaagaatg tagtggctgg tgaatcactg atcaaaaagc ggatttttga 180
gagattcttc atcgatctag tggccggtga atcactgatc aaagagcgag caaccgccgg 240
gtttaatgat tttgtgggat ccctggatgt agcggctggc gaaccgcttc ttctttcaca 300

aagattcaga caaaaccgaa cttggattga actgaagaag attttgccaa cgaagaaaaa 360
 ggtaaaaagg tttcaaatta ataaaatatt aatgagggtta tttattaacc atttcaggtt 420
 ttataacttt tctttcattt caaagcttaa aaaaaaataa aaatggctgg cccctttttt 480

<210> 57098

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-B5

<400> 57098

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 ataccgagg caaggatgct ccgtattcgt tatcttcctc gagtaggtta acaagacaaa 120
 gatcatatga ttcatttaac tctatatcgt gtgataagtt cgacatgctt acatctacat 180
 tgaaagatga cggtcctaaag ctaccctctt ccgccgaagt tctcgccgca ttacaagagg 240
 ttgaaggact tgatgaagac acataacttg agctttatga catcctcacc tctaatagca 299

<210> 57099

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-B7

<400> 57099

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 tacctttcaa cgcccactta aactgctact gctctggaaa aaaatgacac tgtgccaacc 120
 tgctagaaat gattacagaa gcatcattca atcccatctg accatcgac acctgctacg 180
 atgttgctat ttactacgat gccctctaga ctccgctgc taaatagtgt actgatagct 240
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 acgaactcaa cagctttctc tacatcacgc actaaacaag atggctctca atgtctccag 360
 atcatcatgt acatactaac cgatcat 387

<210> 57100

<211> 269

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3088-041-Q1-K1-B8
 <400> 57100
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 agcaggggagg tggagccagc gtttttgtga atgataagcg tcttttggta tttgttcatt 120
 ctttttttta caaaaaaaaa agagtatgta acatgagtta tacaactagg ctgttcttcg 180
 agaaacaacc tgtaactgtc tgtcatatac ttgacgaatg agaagcgttt tcgtaaaaaa 240
 aaaaaaaaaa atataaaaaa atactacaa 269

<210> 57101
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C1
 <400> 57101
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 tcactccaac gtgtggaact cgcagcccaa gaactactgt cccggatccc gcgtctgccg 120
 ggtctgtgcg aaccctcatg gactgatcag gaagtactgg ctgatgtgct gcatgcagt 180
 cttccgcagc aacgccaagg acattggctt catcaagtac cgctgaagtc agctgggctg 240
 gctatctgaa tgccatctct tggacagtgt agtataggct atgccacaat ttttaattact 300
 gtcatttata tgttcccttc aaaactctgc tatttaagtc cgccatgttt tgtgatggaa 360
 aacttaagct ttgtttgtta tactgattat gagttacctg tgctt 405

<210> 57102
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C10
 <400> 57102
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 cgtaagttcc ctagaggtaa agtagatttt taacagcatg gtgccatttt gccagcctat 120

gcacaaaacc tcacttggtc tttgtaatgt ggtaatgccca tgtatcacta tcctagtctg 180
atggagtttt ggttgaaaa 199

<210> 57103
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-041-Q1-K1-C11

<400> 57103

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atcaaatgaa ccaccttacg aantaggtgg attcttaagc tcatgggaac ctacaagaac 120
ttgtacagct gatctctaaa tctggtcgca gctccatact caactacaaa tgtggaacca 180
aaaaaataat ccacttgtcc aaaatcctct taaaggcccc cgaaccct 228

<210> 57104
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C12

<400> 57104

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atccggaaca tggtacccaa tacaaggatc gatcagtagg agtttatgag atgaacccaa 120
ttagttaaat ccgaccagc aaattcatcg atgcccttgt ccgcagcgat cttgagctcg 180
ttcatcctct tcctgatgcc ctcccccttc tcgctgccgc ccatgagcct gtcgatggcg 240
gccttgatct cccctttctc cagctggtec ccggcgacct tcgtgcccac cttccaaacg 300
tggcacacgt acctcgcggt gccgtactgg tccccgtggc tcgggtggca aatcatgggc 360
acgcccttcg acacggcctc caggtggaa ttccaaccgc aatgggtg 408

<210> 57105
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C5

<400> 57105

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ggtgaacacc aaggacgacg tggcgttgta cgctttcaag cgcattggcg acatctacaa 120

ggctaacacc aagagcagcg ataccgcgta caggtgcacg tggggcaagg tcaccgccc 180

gcacggcaac tcgggcgtcc accgcgcaa gttcaagtcc aacctccgc ctgagtccat 240

gtagcgcaag gtcagagtgt tcatgtaccc gaacagcagc taacgctagg tttttgtcta 300

agtaaaagtt gactccaaat ggccatgctt attttctctc tctgagctta aaatgccata 360

tgttggcaac ttatattggt catgtactga acctgctgaa gttctaccaa aatttcttgt 420

<210> 57106

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C6

<400> 57106

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ttctgggacg aggtgcgcaa cgtggggcac ggcgacaaga aggacgagcc gtggtggccc 180

gtgctggaca cccgcgacag cctggtggag acgctgacca ccatcatgtg ggtcacctcc 240

ggccaccact cggccgtcaa cttcgggcag taccacttcg ccggtactt cccaaccgg 300

ccgaccacca tccggaagaa catgccggtg gaggaaggcg ggccgggcga agagatggag 360

aagttcctta agcagccgga gacgacgctg ctggacatgc ttgccacgca aa 412

<210> 57107

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C7

<400> 57107

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acataacta caaaaactac ggggcccggg tacatttaca aatatctaaa gccattctat 120

aactacttac acaacataaa tcacaactac aataatgact aaccatcatt acccatactc 180
 tacaccctct acatccttat atatactctt accaccatca tgtaactcac ctctcttcac 240
 cactctatca tcaacttcat acaataccac ttcacccact actttcccaa ccttcctacc 300
 accattcata agaaca 316

<210> 57108
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-D10

<400> 57108

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 atcataacat ccacggcgtc ctggctgggc atgaagagtg ttctgaccgg tctcacgtct 120
 ctgatgggtc ctgttccgat gctaaagctc tacggagtcc cataacttggg atttgttget 180
 tggctagata tggtcacata cttgcacat catggccacg aagacaagct tccctgggtac 240
 cgtggaaagg agtggagtta tctgcgtgga ggactgacga cgctcgaccg ggactacgga 300
 tggatcaaca acatccatca cgacatcgga actcatgtca tccatcacct cttccctcag 360
 atcccgcat accatctcat cgaggcgacc gaagcagcaa agccggttct tggcaagtac 420
 taaaagagc cgaagaagtc ggggtgctctg ccgtggcatc tattccgggt gct 473

<210> 57109
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-D11

<400> 57109

gaattcccgg gccgaccgac gcgtacgtgc ggctaccgca gttccctgcc atgagagtgt 60
 cgtggccgtg gccatgacga ccgccttcag cncgctctcc gcggtgacgc gcgacctcag 120
 gcttatgctg cggctggagt agccatcagg acacatagct cgtctgctgg ctctaacget 180
 ggcttcgatt tctcttctta attcttcctt ctttatttagc tcctactcct agtccttgct 240

gacgcatcat cgatcgagct gcacgttggt tctggctgct ctcttggtat ggggtcccacg 300
 ctgacgcggc gaggtttccg gctcagttat attgtgcggc cgggtggtgaa gcacacggcg 360
 gacatgggat cccaccggga ccgcagtgtg gaatgatagg agctgtaata cactactctg 420
 tactgtgatg tgcaagtaca tagtactagt tacta 455

<210> 57110
 <211> 467
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-D12
 <400> 57110

gaattcccgg cccgaccgac gcgtacggcg agctcncnt ctangagaag gagagcttcg 60
 cctccaacga cgtctcggtc gtcagcagcn acgtctcttc cggcctcgcc tgccataggc 120
 ccacgggcaa caagagccgg ctcaagggcg gccggagctt gccgcgccgg aagcaggtgg 180
 cggcgctcggc gtctgcgtcg gaccaccgct tccaggaaag atcacacaag gtgagcaaga 240
 aggggaccca gcgagtggag caggagccgc acaaggaccg attcgacgcc gtcgccgccc 300
 tggacgacga cgcttgccag cctcccacgg attactgaga cgacctgctc tgtacataga 360
 tttggaagga tttgcagggc tagctgacga tttgtttggg cttgcactag tctgaaagac 420
 tgcacggtta ctgtctgctg agtgactgta cctgtcgtgt cggtcat 467

<210> 57111
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-041-Q1-K1-D2
 <400> 57111

aattcccggg tcgaccgcac gcgtgcggcg ggtcgagatg gcggcgctcgg atgttgttta 60
 ccgctgcttc gtcggcagcc tcgccttgct caggtacgac cactccctcc acaacgcctt 120
 cagcacctac ggcgaggtcc tcgagtccaa gatcatctc gatcgggaga cgcagaggtc 180
 ccgcggcttc cgcttcgtca ccttctccac ggaggaggcg atgcggaacg ccatcgaagg 240
 catgaacggc aaggagctgg acggccgcaa catcaccgtc aacgaggccc agtcccgcgg 300

cggccgttga ggcagcagcc gctgccggtg cagtgggtgg

339

<210> 57112
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-D5

<400> 57112

ggtccggaat tcccgggtcg accgcacgcg tgcgggtgata tacgagtcac ccagcaaata 60
tggttgaccg acgattgatg tgcattctgt tttgggtctct tacctccacc acccatggag 120
ctattgtttg aggaaactgt aagcaaagag atgtcgtggg aaaggaacgt gtcgtcctcc 180
ctagatcttt cactttggcg aattaggagg cagggtgtgat aaataagagt cttgctagtt 240
cgtcgtcgtc catgtttgtca tagatcctgt cttgtgtgtt catgttactg tgatgcaggc 300
aattgtgtgt tgtgtccggg cgtaa 326

<210> 57113
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-D7

<400> 57113

aattccccggg tcgaccact cgtccgaaag aaaaaaaaaa aaaaaaaaaa taaaaattaa 60
aaaaaaaaaa aaaaaaaaaa aagaaaaaga aaatttaaaa aaaataacaa cccctctaaa 120
aaaatccaaa acttacaac acatacatc aacaaaataa aatcttctat actgtcacca 180
aatccaatt cactgcccct ctttttacaa cttcataact ttaaaaaccc tcccttaacc 240
caacttaatc cccttacact acatccccct ttcaccaact aaccattac ctaacagacc 300
ctaaccaatc tcccttccaa acattttcc 329

<210> 57114
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-E10

<400> 57114

gaattccccg gtcgaccgac gcgtacgccc aggcgtccgc ccacgcgtcc gttccgttta 60
agacgtgttt tgatgtgaac gatcagtagt gtgcttacia acaagtgatg ccctattctt 120
ctttcacttc ttgccgcttt tccaatgggt aaaacattcc cttctaataa ttcttacacc 180
tttttttttt ctttctttga aaagaacctt ataattctta aattgacctt attgtttgaa 240
ttgtaacacg cacaacacaa ggttcgtctt ttctactttt gtataagatt gtgcctctaa 300
taaaatggtc taaacccctt actaagggat ctgcttgaat caaataat 348

<210> 57115

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-041-Q1-K1-E12

<400> 57115

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caatttagag aagaagaaga agaggaggag gaagagtnca tcttagcatg tcggagggga 120
ctgccaaactg cgtggacatc ctgatcgcca tcactctgcc tccgctgggg gtgttcctca 180
agtacgggtg cggccacgag ttctggatct gcctcctcct caccttcctc ggctacatcc 240
ccggcatcat ctacgccatc tacgccatca ccaagaacaa ctacttagtc atccttgccg 300
acgacgatcc atgtctctgt atctgcgtct gttcatatgc ctgatgccga cttgtgctgt 360
atgtagttgc ttgaattcag tcgtgttttg ctaccgtacc caccctatgc atcatctgtc 420
accgcgaccc aataatcatt ataataacca gttcagaaat tgattcccaa t 471

<210> 57116

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-E5

<400> 57116

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cataccataa ctaacaccat ggatatgttc tacactaaca ttacacttc cattaccatt 120
 cttatctctg ttctcacctc ttacaattct atcttcattg tcataattat tttcgttcca 180
 ccttttgctc tacctttatc tctttactaa tccttttcac tttcctcaac acttaacata 240
 atatttccta caatcttcac tcataacata aattaactaa aaaatttaca taaaa 295

<210> 57117
 <211> 336
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-E6

<400> 57117

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 tggtttcaac gaccgccacc aaggacgacg gtntagtcgg ctacgagcgc cggcgcgagc 120
 tgcaggcggt cgacgacacg aagctggggg tgaaaggcct ggtggactcc ggcgtcaagt 180
 ccatcccgtc catcttcac caccgcgcgg aagccctgag cgacataatt tctccggcgc 240
 cgctctgcc gccgtcgtcg ccctcggcg ccgccatccc ggtggtggac ctctcggtga 300
 cgcggcgcca ggacctagtc cagcaagtga agcagc 336

<210> 57118
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-F10

<400> 57118

aattcccggy ccgaccgcac tcgtccgccc acgcgtccga aaaaaaaaaa taaaaataa 60
 aaaaaaaaaa aaaaaaaaaa aagaaaaaga aaaaaataaa aaaaaaaaaa gaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggc ccccccttta 180
 aaaaaaccaa attttacttc cccatcattc caacataaaa cctttataa agacccccca 240
 aaattaaatt aatttcctt tttttaaaaa ccactaaatt gaaaaaacct tgcttttccc 300
 aaacttaatc ctttttaaaa aaatcccctt ttcacaaatt gactaaataa caaaaagacc 360
 caatccaaaa ccctttccaa 380

<210> 57119
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-F11

 <400> 57119

 aattcccgagg tcgaccgacg cgtacgcccc gccgctcgcc cagcgcgcct tccacttgct 60
 cgcccacgag tcttccgctc tgtaacgaat tcttatgtag tagggctttc ctgctttggt 120
 aaagaataaa caatgagggt tcagttttgg tggcgcaaaa aaaaaaaact aaaaaaaat 180
 aataaaaaaa aaaacaaaa aaaagcaaaa cttaccatat attaaaaaa aaaactaaaa 240
 aatttaaaaa aaaaaacggg gcgcgcgttt aaataa 276

<210> 57120
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-F4

 <400> 57120

 cggaattccc gggctgaccg cagcgcgcct atgatctgtg cgctttatcg acaggcacat 60
 aaacattcct gtgctgtgct tggacgaatg gtctcggggc ttgttggttg actctactat 120
 tatttattct ttgtgcttct gactgcctaa gtattattaa cattattggt ttgggaaagt 180
 taacaaggcc cggttgcca gtcgctgtag aagcttgggg agaggagggg ggtgtcaatg 240
 tgacggacaa taataagggt tcgttggtgt accagagata gttgtaatat gtcattgtgt 300
 gatgcttttg tgtggtgcta gtacaagaca accagacagc tatagttgag gcaatgatta 360
 ttttgcgttc ataaaaaaaa tattaattat attttt 396

<210> 57121
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-G1

<400> 57121

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ccagttcctg ggcaaccgcg tgaccaaccg cgtccgtagc gcggagcagc acaaccagga 120
cgtgaactcc ctgggcctca tctcgtccag gaagaccgcc gaggcagtgg acatcctgaa 180
gctgatgacg tccacgttcc tgategcgt gtgccaggcc atcgacctgc ggcacctcga 240
ggagaacgtg aaggccgcgg tgaagaactg cgtgacgcan gtggccaaga agtcgctgag 300
cctgaacgcc cggggcgggc tccacaacgc gcgcttctgc gagaaggacc tgcagacggc 360
gatcgaccgc gaggccgtgt tcgcgtacgc ggacgaccgc tgc 403

<210> 57122

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G10

<400> 57122

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tgccctgcc a tcatatcgta cgtgagcgcg gccgagcgag agcgagggag aggcattggct 120
gctccgaagc tcgcgacgct ggcgctggcc gtgctcctgg cggcgaccgt ggtggctccc 180
ccggccgcgg tgcgcgcggc gatgtcgtgt tccaccgtgt acagcacgct gatgccgtgc 240
ctgccgttcg tccagatggg cggggccatg ccgccccagc cgtgctgcgg cggcaccgc 300
agcctgctgc agcaggccaa caacaccccc gaccggcgca ccatctgcgg ctgcctcaag 360
aacgtcgcca acggcgccaa cgggagcggc acctacatca g 401

<210> 57123

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G2

<400> 57123

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tttccttaag aagtagatca tgcaccact ggtgatgact tcgtctagt tccctccgtt 120

caatgtcgtc gtcgtcgtcg tgtaccttac gtgacatgct gtagcacgta cgctagcaga 180
gcagcacctc aatgtccttg ggtttgcttt gctggctctc tgttttcgtc ttgtgttgct 240
tttaatctgg cacaggtttc taaattataa taatgaatac ttttttgtcc attaaaaaaaa 300
aacaacaaaa catctaaata aaataataac caaaagacat cttgaaccat tatcattaac 360
aaacactaca att 373

<210> 57124
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-041-Q1-K1-G3

<400> 57124

ggaattcccg ggtcgaccgc acgcgtacgt tttgctgtca tcagcatgtg aaactgggtt 60
agagattggt gatcttggaa acttgtacag cnatgggtcaa acaccatggt cctgttttaa 120
gcaagggggg gagagtgtcg aaaaggctgc aaaggatctc gtacttattt tagagacaat 180
gaggataatt gcaatcacac tatctcctat cactccaagc ctttctctga ggatttacac 240
acagcttggt ttcacagaag accagtttag ggtgttgaga tgggaggata cgaaattggg 300
aagcc 305

<210> 57125
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G8

<400> 57125

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cccatgttt ttctggcgtg gagattgtaa ggttctacaa agtcacggtc tccaaagtga 120
cagcttgctt gattttaaac agtgtcgaca gtgttttgtc tctacacaga ttgcagatat 180
agcggtttaa acagttcgct ttaatccgaa acgaacaggc tattttacct gaatcataaa 240
acaaaaataa aaaaaacctc tcaataaaat tcaagcaaa 279

<210> 57126
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-H1

 <400> 57126

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 agttttttgca gtcagggtggc gtacaattgg cgcacgggtgt ttttcttcta tagacaaaag 120
 gggagaaatg acacctcccc cctcgagaat tggggaacaa ggacagatct gacacctcaa 180
 ttgcgagaaa taaaaataac agccgacagt tgcattgatcc ctgaacgaat aaattcagaa 240
 ctagaaaaca gatgtcagta aacaacatgt ggtgaatggt ggaacttgaa ctgctctagt 300
 tcagtgggca tctgttgttg catgcttggg atggatttaa tgtttcgttt tttttcttcc 360
 ttgtactgaa gtgctctgat cggtaacgat cactgtgtgt gaaatgcttg attgttatgt 420
 ggtatcatga gaatg 435

<210> 57127
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-H10

 <400> 57127

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 aaaaaaacca acaatgttaa gagtccaatt ttaaaaaccc gtggatgcaa actaaataac 120
 tcttctatag agacacctaa attcaatt 148

<210> 57128
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-H2

 <400> 57128

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 gtcaaggccg gtgggtgctta caccatgaac actgctagtg cggtcactgt caggagcacg 120

atccgtcgct tgagggagca gactgaagca tgatcggtcg cttgtcaggc atactggggt 180
ccactatatt ggctgtgtag ccgagacagt actccaacc 219

<210> 57129
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-H5

<400> 57129

ccggtccgga attcccgggt cgaccgcacg cgtacgcgcg caccaatcgc ccacaagcgc 60
tcgcattaga ggtcgaaacc ctagcttttg gggcgtgtgc ggttttagaga agatgatcta 120
cgacgtgaac tccccctct tccgttcctt cctcagccag aagggcggcg ccgacaagag 180
gaaaatggag gagcataaac caaaggagca gaggcccaag gccaacgaga acaagcctgt 240
gatgaacgaa tgagtatctc cagaagcttt gttcaatgtg caaccaagtc cgatgtccgt 300
ttgctctgggt tagcttaaaa ccaacgcttc caataatcct attggtgtct tagtttcccc 360
ttatagtgtt atttgcctcg cttgaacatt gcaaacggaa atgaaacttg aactacctat 420
ggtactgtca tcaatttgag acccccatga ttgacaaaaa aaaaaaaaaa gggccg 476

<210> 57130
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-H6

<400> 57130

attcccgggt cgaccactc gtacgatagg cttaccaca ctaacaccta ctatttactc 60
tatctctcta ccaatatacg ggcacagtat aatcatcctt ccagacaatt actgtctata 120
ctccatctat catttcaact ttgctactgc tgatgacatc cagaacacca acatcttcta 180
tatectatga tctccatcca tctgacatc tta 213

<210> 57131
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-H8

<400> 57131

aattcccggc tcgaccact cgtcctaaaa aaaaaaaaaa aaaaaaaaaa aaaaattaaa 60
aaaaaaaaaa aaaaaaaaaa aggtatagga gaccttaaaa aacatacaca tccatacaac 120
aatataaact ctactataat ataacctaaa ttcaattcac tctccatca 169

<210> 57132

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A11

<400> 57132

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ggagaccat agggccgcgt agagaaagct taagagctta ttctacagag acgcgatacc 120
cagcccatg gacggcatga actgtacaga gctagacggg cggaacatta tcgcctacga 180
tgcccagatc cgcggttgc ggagaggcag cgggtggcgca tacagtggcc cgcgccctga 240
tagaggcggc ta 252

<210> 57133

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A7

<400> 57133

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gctgtaggcg ctgcagtgcg acgggcgcct ttgccgggcc ggctggcaga tctcgtcga 120
gtccttcacc gacttcgcca tgctctcgca tacactgtgg atcctgttct accaccggct 180
gctgtgccc aagctccgca agataaccgg tacggaggag gggttcacgc tgctccagcg 240
ccagggcatc aggatcgtgc tctgcactgg acccatggtc atcataggca ttgtctagga 300
cacgacgccg tgcca 315

<210> 57134
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-A8

 <400> 57134

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttataaaaaa aattaaaaaa aaaaaaaaaa 60
 aaagaaaaaa tggg 74

<210> 57135
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-A9

 <400> 57135

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 gtgtattagt aataaccgaa caacccttta gggcttggtc ggtagctct caatccatat 120
 ggatagagtg agattgggtg ggattaaatc ctaagcaagt caaagttctt ctaatctttt 180
 tccaataaat actcaaagaa caaacaatga taggtgacac cggtggtgct gctgataggg 240
 tgttgaaacc agctgcttac tgagatggat ggcaaagaat gcgggcgggc ctttttaaagg 300
 ttccaagttt acgtaccctg ccatgc 326

<210> 57136
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-B12

 <400> 57136

 aaaaaaaaaa aaaaaaatta aaaaaaaaat ataaaaaatt ataaaaaaaa aaaaaaaaaa 60
 aaagaaaaat tgaaaaatta aaaaaggaaa aaaaaaaaaa aaaaaacaaa aaaaataaaa 120
 aaaggggccc cctttttaaa ggttccaact tttcttcccc ttcctttcaa ctctttacct 180
 tttctttagg ttcccctaatt ttaatttcct 210

<210> 57137
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B2

<400> 57137

tctagttcca tgtttctaac ttatgttcca ttttgaagtc ccgagtgttt caaaaagtgc 60
tagcagctag acgtgcctag caacctaggt ggtgctcagg cgttgcttga catttgtact 120
ttctatggac agtatgccat gttgaataaa gtatttttgg caaaaa 166

<210> 57138
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B5

<400> 57138

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aatgcttcga ccctcagctg gattggatgg atgagcctac ggtgctgcac aagccgaacc 120
ggccctgcgc ccctgcctaa caccaatatg ttggacactt ccactactgt tcttcacttc 180
ccatttgtat aacgggacct gcattattgt agcatgggtg cagcgtttcc tatgtaattt 240
ctgtgacatt accaactcac aatattgatt tcatctgaaa tgtaacatat tttttcac 298

<210> 57139
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C12

<400> 57139

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gaaaaataaa aaaaaaaaaa aaggccaaac aatataaaaa aataccaaaa cataaaaaaca 120
catacatgca acaacataac aaatactata gtgacaccta aatatcaata a 171

<210> 57140
<211> 356

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-C8
 <400> 57140
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 gcagtctgta cacatgctaa cacatgatcc gtgtgggttg tgaagagaag ctgctgccat 120
 gaacaatgga cttcagccac aatattatgt ggatgtcgtt tcatgggcta cggcgatgc 180
 tacaggcccc gatcgaatga tgatcagcag atgggaactc gtagttcctt gctgtctgca 240
 gcatctttct catgtaccgc tagcatgtgc gtgtttgtgg ttgggttggg ttgtttggcc 300
 gatttactga tcattggcga atgaagtgat ccatgtacat cattttgaag aattgc 356

<210> 57141
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-C9
 <400> 57141
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 aagtgcagag attagaccga gcatttatga gccgaaggc attgaaattg taggatctgg 120
 agtcacatca atgccataag aattgtcgat tacggaaact gaaccaaacc agtttaacag 180
 gatcagattc atccgaaact gacatgactt cacattgtgt aatttatagt gacaaagtcc 240
 ttggtgtaca cgagttagtt ctgacagatt gtacagttct tctgggtaga aagcaaaatc 300
 tgatagtga cacatctgac ctgatcgca atgcttgtat agccgtctca cctacttcag 360
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 ggaagaaata tcttaaccat ttgaaaaaaa ataaa 455

<210> 57142
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-E4
 <400> 57142

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 tagcagttgc cgtatttgtt aagcgtaact tgttgtttct cattattatc atcccccttt 180
 ggtccatttg tataacctgt atcgcccatg tctgggtgtg gacaatcggg agtttttgtg 240
 tgttaatata aggtgctagg ttttcccacc atgccgattg taaagttgcc ctggtgcgca 300
 ttgcactgcg atttgtacgg aataggaag gaaaaattta taggttttgc tttgtgcaaa 360
 aa 362

<210> 57143
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G2

<400> 57143

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<210> 57144
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H3

<400> 57144

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 ggaccagtat tcataggttt ttagtttagca atgtgttgtt ggcccgttgc tagtccttgt 120
 aatacaagcc cacctgtttt tttgcgcacg gcaagactta aactgacaac atttttagt 180
 accttttatt ttgtatcacc tgctctatac acgagttttc ttggaacatc ggaaaaaaaa 240
 aaaaaaaaaa aaaaacaaaa aaaaaacaaa aaaaaaaaat aaactaaaaa aaaaaaaca 300
 tta 303

<210> 57145
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H7

<400> 57145

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gatcggacac aatcaggctc tgggtgcaggc ggtgtcaacc tcaacacctt gatgaacatg 120
ttcagcgggc ttgggtgctgg tgggtggccta ggtgttccaa atgctcctaa tgcaccgcca 180
gaagaactgt acgccacaca attagctcag ctccaagaaa tgggttttctt tgacacacaa 240
gagaacatcc gagccttggc cgctaccgct ggaaatgttc atgctgcagt ggagcgactt 300
cttggaata tgggctaata gaatatgatg atcataactg tactcagata ttgtgatttt 360
tagttggcat tgtgagatca tgtctggctc attgggttta ca 402

<210> 57146

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H8

<400> 57146

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cactcgact aattgctggg cgacaacatc gggaggtaca tggactcctc ggcggtgaag 120
gtcgtccagg gcgccccga cgtcggagtg cagctcatgg agcaccgctg ggacaaggctc 180
ctcttcaccg ggagtccccg catcgcgcgc gccgtgatgg ccgcggcgtc caggcacctg 240
acgcccgtcg cgctggagct gggcggcaag tgccctgca tcttcgacgc catgggcagc 300
gcccgggacc tgcagatctc ggtgaaccgc atgatcgcg gcaagtggc gtcctgcgcc 360
ggacaggcct gcatcgatc cgactacgtg ctcgctcagg agcgttttgc gccattctg 420
atcaaggtgc tc 432

<210> 57147

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H9

<400> 57147

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 cccctgttt cgagtgcaat gcatttgaaa cggtttaggtt tctcatagga ggtgtcatgc 120
 tgccatactc ctttgtactt tcagattatt gaacggagca tggcaagggtg taatttagct 180
 cagctttcgc attggctcct ggccctcctgg ggcgttatca taccgtgcgg ttggaatgaa 240
 ctgaggagct tcatgccaaa a 261

<210> 57148
 <211> 217
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-A2

<400> 57148
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 atattancaa atattgtaaa ataattgggg agggaagatt attaaatata caggcttaag 120
 aacttataaa atggggcgctc ctttttaata tatccaaact tctttcccag tgcatacaat 180
 ggtaaaaatt taatatattg tcccttaaatt taaatta 217

<210> 57149
 <211> 101
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-A3

<400> 57149
 cccacgcgtn cgtgcagtta acgtgtgtgg tgttctgcta tggtttaaag tttaaccact 60
 gtgcatagtc agtcaatggt agcttccttg tccttgcnaa a 101

<210> 57150
 <211> 235
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-043-Q1-K1-A4
 <400> 57150

aaacaacata tcagacctct ggtactcaaa aaatcccgac aagccagtac catgtccata 60
 caaaattgca acaattactc ataagtctaa gtagggaggg tcgactgatg caacacagcc 120
 agggcagcat aaggctactta taagctgtaa caaaataggc cttgaaaaca tctcaaagca 180
 ctgatcattc ttaggcagag gtggcagcag aagccttggc ggcggcagaa agctt 235

<210> 57151
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B12

<400> 57151

cccgggccga ccacgcgtg cgctgtcatc aagttgatag gtggacaaat ttcaatgccc 60
 aagttgtttc cactgggtgc tggtttgga tctgtttggg aactttttac agcagtgccg 120
 gttcttgtca ctgcttacgt ttgccattac aatgttcacc caattcataa tgagctaaag 180
 gactctaccc agattaagcc aatagtacac acatcattga cactatgctc gaccatctac 240
 atcacaacaa gtttctttgg atatctctc tttggtgaat ctacactctc tgatgtgctc 300
 tccaactttg attcaaactc tgggatccca tacagttcag tcctcaatga tgctgtcaga 360
 gtgagctatg ctgttcacct gatgcttgtg ttcccatg 399

<210> 57152
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-B4

<400> 57152

cggaannccc gggtcgaccc acgcgtacgg gcctgctgag cgttccatgg agcaggagca 60
 gagggttgaa cttgcgaacg accgcgacgc gcagttgtgc tgcgttgggg aggtggaaag 120
 cgggcgcagg tttgctctgg gggaggcgga agcggaagcg gcagagggcg acagccccga 180
 cgagcagagg cggaggaggg agaggatcca ggagactgtt gccgcgctca ggaacatggt 240
 ccccgggggc atcgcgaaag acgccgcggc tgttctggac gaagcgatct gctacttgca 300

gtacctgaag ctgaaagtga agacgctggg agctgtcttc ctctagctaa gcctatctag 360
ccctctctcc tcgtcgtggt g 381

<210> 57153
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-C1

<400> 57153

cccacgcgtc cgaaaaanaa aaaaaaaaaa aaaaaaaana aaaaaaaaaa aaaaaaaaaa 60
aggaagggga aaaaaaaaaa aaaagggaag gaaaaaaaaag gggagccaat ctaaaaaacc 120
caaacaaaaa ggccgcccc tctaaagaat ccaaccttac taccctgtcc atgcaacgga 180
atatctcttc tataggggcc ccaaaatcca attcactgcc ccccttttaa caccgtcgta 240
actggaaaaa ccttgccgtt cccaactaa atagcctggc aaaacatccc cttttcccca 300
attggcgtaa aaccaaaaa 319

<210> 57154
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C2

<400> 57154

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gaagcccacc atcacctccc gcgagatcca gacctcgtg cgcctcgtgc tccccggcga 120
gctcgccaag cagccgtct ctgagggcac caaggccgtc accaagttca cctcctccta 180
ggcttgacag ctgccccttt gtaggcttct cttgtgttga tgttcgcctt gtgtttagt 240
tagatgttgc tggtttctct gtcggcgtg ctctgcttct gtaggaactg cgtcatgtaa 300
cccagcaagg acttgtttat ttgtgaatca tcaacacttt gttgttgatc acttatgttc 360
caaattctga gtttgacgc 379

<210> 57155
<211> 358

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-C3

 <400> 57155

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 ttggatcgtg tctnccgtcg gtgaaaagag aaaccaacgg cagaggaggg cgcgccctgg 120
 tttttacagc ggctgcggct cccaacttcc caacaagtga gaaaaaaaga agaagaggcg 180
 aaacatacta agaccagccc tagaaaacta gctagccaag tactatgttg atctgtaggc 240
 cgctttggcg attccgtctt ccaaacctgt ggagttgtga atccttttgc agattaaagt 300
 aaagttcgtt agccccnnnn aaaaannaaa aaaaaataat aaaaaatata aataaaat 358

<210> 57156
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-D5

 <400> 57156

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 gagggggggtt gcatcatatg gtgatcgcca atgtgcatca agttctctca tcccttgcca 120
 gaccatgctt atttccattg caaaatcatc aagctctgca tcaacttggt gtggataata 180
 atgaaataat aaatggtgcc attccatggc aacatttttc tgtcagtagt ttatgaggca 240
 ctgttctaaa tgtactgttg agtgggaattt gaatatgtat gcttttgcaa tcgcacacct 300
 aaataccttg tgcttatact ccttggtacc taantnnaa 339

<210> 57157
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-E1

 <400> 57157

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 ttccttcccc gcgcgcctc cgggccccgt cggcccatg ggtgaagtan nctcgagga 120
 aagccgggca acccttacca agtcggctaa gggcccatgg gcagggatcn tgaggggtccc 180
 acttcaaaga acacaaaggg agaccagcct ttgcgccttc gcaagggttg tctttgac 238

<210> 57158

<211> 234

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-G3

<400> 57158

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 nntgtgtctt acaatnncaa aaaatacaaa tcaagaaaat ctcaactggc gtgtgtggnn 120
 ngagccagaa agaaagggcg gatgaaagtt caaaaaaggg tngnntcgaa gggtgcaacn 180
 nncaagtttc tttccttaag cannagctga aggggaacct ccaatnnntt ttg 234

<210> 57159

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-G5

<400> 57159

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 taactgtata gcccctggtt ttgttcctac gcggggggct agtttcctca cagaaaatga 120
 gaccattagg aaagagctta acgagaggac caagcttaag agattgggta ctgtggaaga 180
 catggctgcg gctgcggctt tcctggcatc tgacgacgca tcatacatta cggctgaaac 240
 cattgttgtt gctggagggg tgcagtctag gctgtaaatc tggctgaagt ttatatttac 300
 ttggttaata atgtgtacta gtgccctagg cgtggctaata aatgtgtact agtgccgcta 360
 gagcatcagg ctaccttcta tatatgacag gcaactctaa aagattttct atatcttatt 420
 cctcttc 427

<210> 57160
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-G9

<400> 57160

tgaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg 60
ggggcggata aaaccaaaaa aaaaaacata cgggccggcc cttctaaagg atcaaagctt 120
acgtacgctt gcatgcaacg aaataacttt tttatagtgt aacctaaatt aaatta 176

<210> 57161
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H7

<400> 57161

cccacgcgtc cgcccacgcg tccgcggacg cgtgggggtac tgttcacgct gacttggtact 60
tgctcgtgcg tcacgcttgt acttttatct tctgtcaaac caaaggtaga tttgtaattc 120
aatattgttt atatttttcc atgataatat aatgaggata aattgacagt gcta 174

<210> 57162
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H9

<400> 57162

cccacgcgtc cgcccacgcg tccgatccct ccccccccat tcaatagatc gtagtgagga 60
gagtgattac agcgagcaga aatagtcggc atttaaaata attcgtggct ttcgagtttg 120
taacagcgtg cgggttcaat cctgcccgtg attttccttt gtaataataa catgagcaaa 180
atcttgacag ccggcagcga atgtcgtctt ggagatggca aatgtgtgtt ttgaactgaa 240
tggtaaatgt gcggttctct tgaatagtat cttggctaaa aa 282

<210> 57163
<211> 406

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-A11

 <400> 57163

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 gttcagcttc ggcaccttct gcacggagga cgcgatgcgc agcgccatcg agggcatgaa 120
 cggttaaggag ctagacgggc ggaacatgac cgctaacgag gccagttcc gcggctgccg 180
 tagaggcagc ggcggcggat acagtggccg gcgccgtgat ggaggcggct acggcggcgg 240
 cggtggacgc taccgcatgg gtcgtggagg ctacggccgc ggtgggggat acggtggtgc 300
 aaaccgcggc ggcggctacg gctacaacga cgggaactgg atgaactgag cggtggagtc 360
 cgctgaggcc tagttaatcc ggtcgcttat gctaccgcgg tcaccc 406

<210> 57164
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-B1

 <400> 57164

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 gagtgtagaa aatgtgcacc aggagcagtt tacaacacagc ggttcttttt tgtgctgaac 120
 caccagtagt tgagccgtga aggaatggaa aaactttcca cttgctcatt tccgagcgcc 180
 ttctcattca ttgtatgcat gttttggact cgaggctgga cgtcttgac acaggaatcc 240
 aatcactgga gttgcaaaaa aaaaaaacat aatcaattaa atggtcgaac tg 292

<210> 57165
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-B2

 <400> 57165

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 tcggttctcg catcgatgaa taacgtggca aaatgcgata cctgggtgtga attgcagaat 120

cccgcgaacc atcgagtttt tgaacgcaag ttgcgcccga agcctttctgg cggaaggcac 180
gtctgcctgg gcgtcacgcc aaaagacata gaagaaaaaa aatgaaagaa tctaaaaaaa 240
aaaaaaatat aaaaaaatat aaaaaaaaaa ataaaaaata aaaaataaat attaaatatt 300
aaaaaagggc gtcctttcgt gacttaaaat taaccgtccc aattaacgtc cccgtccatt 360
aaacctacaa aatcccgtgt tccctcgtct taatcaatth aa 402

<210> 57166
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B6

<400> 57166

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gcgataacct gtgtgaattg cagaatcccc cgaaccatcg agtttttgaa cgcaagttgc 120
gcccgaagcc ttctggcgga gggcacgtct gcctgggctg caccgcaaaa gacaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa ataaaaaaaa 240
aaaaaaaaat taaaaa 256

<210> 57167
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B7

<400> 57167

cggtcggaat tgaccgggtc gaccacgcg ttgcgccacg cgtccggttt cgatgtgatg 60
cgggtgatga tcttgcttag caagatgctc atctcgtagg actttcttat gtgtctgtaa 120
tataaaatac cggacgcgtt cgcgaaaagt acaacttcaa gagctgaaag aaaggcttct 180
atgcatagtt ggggaacctg gagactgaat tataatgaat ggggctgccc gacgttattc 240
tggaatacat cagatgttaa gatcaagagc atttctgcag ttggtggtgc tgaatggaac 300
aagcccgctc agaatgagag cgtctatcaa tagagaagg attgactttt ccgatgctca 360
aaacatgcat ccagtgcagg aatgggaatt agcatagaac ctgcaaggag ctcttgag 418

<210> 57168
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-C10

 <400> 57168

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 aaaaaaaaaa aaaaaaaaaa gaaaaaagaa aaaaaaaaaa aagaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggcgaccg ttcaaaagga 180
 cccaaggtaa cctaaacttg catgcaacgc caaagggtcta caataaagcc acctaaatta 240
 aattcattgg ccgatgatta aaaaaaactt aacaggaaaa accttggaat aaccaatta 300
 aatcccctta ggaaaaaatc cactcttagc tactgggcat aataccaaaa agccccccac 360
 tgatcgccct tctaaacagt tgca 384

<210> 57169
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-C4

 <400> 57169

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 aaaaaataaa aaaaaaaaaa aaaaaaaga aaaatttaaa aattaaaata gacaataata 120
 caaaaaaaaa aaatattata taatcatacc taatttttat ttacttatt atttttttcc 180
 atatttctta attgttataa ctcttttttt taccaaactt aatttcttta caatttatcc 240
 cttttttaac atatttcttt atattaaata tgcccttacc tattaccttt ctcatcattt 300
 atccatttta aatatttaac tatattattc ttataccttt aattttaatt ttatatattt 360
 tttttgttac tctcagcttt tcttttttcc tttttatata cttatttttc gatttttttt 420
 atttctttcc tttttttttt 439

<210> 57170
 <211> 376

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-044-Q1-K1-D1

 <400> 57170

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 gcagtgagac ggcacttcag gctcactcga aggcgaagca tgggggcaag tgagtgcgag 120
 gtccaataga gtcaacaaca aatgcgaaac atgggagagg agtcggggtt gttgggaagg 180
 aaaattagat tagtatcagt tttttttgaa tgggatggga acgtggctgt gaatctcagg 240
 gttgtatgct cggatgaagaa aaaaatggaa ggacttcgga atgcacgatg ttgatgccga 300
 atattatcca gcgtaaaaaa aaaaagtntt tccacgtgnt gataaaacttt ctcaacctaa 360
 ttgctaaaat agacat 376

<210> 57171
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-D4

 <400> 57171

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 cccagccgca agccgaagcg ggcgccggcg ggcgggacaa ggcagaggcc gagggcgagg 120
 acaaggagga gtgacgggtg tagtcagggg ggaacgggaa cggtctggagt tgtttgcgtc 180
 tcgcgttctt ttcacctgta cgcaggaaat actctctctg cataagacta ctgtactttt 240
 ggataaaaaa ttttatttct acaaaaaaaaa aaaaaaaaaat aaaaatgaat taaaaataat 300
 aaaaaattat ataagaaaaa ttaaaaacac atattatgaa atataaaaaa aaaaaggggg 360
 gccgttttaa aggatccaag tttacgtacc cttgcttgcy acgtcatagc ttttttatag 420
 gggcacctaa atttaattt 439

<210> 57172
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D5

<400> 57172

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cagagatata ctgaactttc tatgcttgct catcagaacg tatgacaaac agaaaacctg 120
aagtttctaa gaaacagaag agaaagaaca agcagtcaac acagaccccg tcagtgaaaa 180
atgagcctgg gcaacaaatc cccattacgg aacttcaagt tctacaagtc aatgtctctg 240
cttaaaaagc aagaggcgta tgccgctgat ccaattaaac ctatggaggc tgccgcgttc 300
aagaacacaa aagacaccgc ttctccaccg gagaagaaac cttcccaacc aacttcatca 360
aagaagaaga acagaaaagg cggcctgtcg ctgttctga gcggcgctct cgacgacacc 420
ccaaaacc 428

<210> 57173

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E12

<400> 57173

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atggaaaatt aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa ataagggccg 120
gccgttttaa aggttccatg cttacttacc cttgcttgca acttcatagc tcttttttag 180
tgtcccctaa tttcatttca ttggccttcg ttttacaccg ttgtgcctgg aaaacccttg 240
ccttttccca atttattccc cttgcattac atcccccttt cgccacttgg cttattacct 300
aataggcccg caccaatcac ctttccaaac agttgccag cctgattggc aattgggacc 360
cccccttttg cgcccttta agccctgcgg ttt 393

<210> 57174

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E2

<400> 57174

accacgcgtc cgaccacgcg tccggacggc gttaaaagtt taactctttt ggtttagggt 60
 gtgaaacccg tgctgtgcat gagttaccgt aacaggagggt tttttttggt gttgttgggc 120
 acggtcagtg tccccgcaaa tttgctttga ctgctgaat gtttttcgga ttcctagatc 180
 tgcaatcaga tacctagtcc tgaaaaaaaa acaatg 216

<210> 57175
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-E5
 <400> 57175

cccacgcgtc cggcgattca ggggtgaacca tcagattgtc tagtgtcttc tttgtaataa 60
 atttatctgt tcttggtact ttgtctatgg ttgaatcgga acccattttc cgtttgcccta 120
 gattcttaat ttctgggtgt gtatccagct gaaactagta gatctatgat cttgcccgtg 180
 cagcatgttc ttgtcacttt tatctggtct ccgttggttc gggtcacagg ttgtgtgctt 240
 taaaaggctg tgcttaagtc ctgcaattcg agtccaccaa actgtagggt gcaagtcgag 300
 attttattag tgatgcaagt tgctgggtatt ggtgcattat cgggctaata cgcttgcggt 360
 gccttctgat tttataagtg atgtaaattg ctggttttta cgtgc 405

<210> 57176
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-F1
 <400> 57176

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 atgagctgag gaagtctgta gatcagaata tgccgttcta cattttcctt tcccccttgt 120
 agctaccatg gcaataacaa tgagaccatc aaacagctgt gcatttaagt atggaaatac 180
 tcccgtctgt gtctgtaata aggacgtttc atgtggctga aacctgccaa ttctgttaat 240
 ttttgcata cttcttggtc aactgggtgt aattgtatac tttgttcacg aagcactgat 300
 cataaaaaaa aaaaaaaaaa aaaaaaaaaa aatagaacac aaataatata cctaaact 358

<210> 57177
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-F8

 <400> 57177

 atcgtctacc cgccccgaaa accctagtta tatatatata tatatatata tatagacata 60
 tgctgattgt aacctaatta gcctgcagcc agttaagcag ggactgccta ctctgctagg 120
 aggacgtgtg taatcatgtg gcctgcgcaa acagtaattt gtgctggctg ctgtgtattc 180
 atgctgctct gataatcgtg tcgtggtaat aatataatcct atttattcta aaaaaaaaaa 240
 aataaaacaa atacagaaaa ctgaaagaaa aaaaaaaaaa ggcacattaa aaaagaaatt 300

<210> 57178
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-F9

 <400> 57178

 gttaactcgg ggacacgatt agcatagcat tttgtccctg gggctgcttt ccatgtcagg 60
 tgaaaacaat acaaaagcta tcgtgtacag atgcaatgta ttttcgttct gattttgtag 120
 cgcttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaggc cgtccatttt acaagatcca agattacttc 240
 ctcttgcctg caaagtcata gcttttctat aggggcacct aatttaaatt 290

<210> 57179
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-G10

 <400> 57179

 cccacgcgtc cgccacgcg tccgcttctt tattagctcc tactcctagt ccgggtcgac 60
 gcatcatcga tcgagctgca cgttgggtct ggctgctctc ctggatggg tcccacgctg 120

ccgcggcgag gcttccggct cagttttatt gtgtggtcgg cggcgaggca cgcggcggcc 180
atgggatccc accgcgacgg cgggtgtagaa tgatagcagc tgtaatacac tactctgtac 240
tgtgatgtgc aagtagatag tactagttac tagttagcca gtgtaggggt cctccgtgta 300
acaagtcatc agcgtgtgat cctcttcgtc tgttcatcaa tatacacatt tctatatgtt 360
tcaacaa 367

<210> 57180
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G5

<400> 57180

cacggagcat gacaccttac gtcacacggc gctgcgaacc ggcggattcc tgcgggcact 60
gatattccac tagcggacta ccttcctcga gatatgctgg gcattttcaa tctatttgga 120
ggcaggggct attcttccac aatcagtgtg gctccatata atcagaaatg ccgataaactt 180
aactggacaa tatgatttct acattggggc ctaccgtgcg ttttacattc taaactggat 240
ttatcgttat ttcacggagg gtcacgcgat cagatggatc ccttggcttg ctgctttcgt 300
gcaaacagat ctgtatgcat attgctacca ctattaaatc ttaaggtcga agaaca 356

<210> 57181
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G6

<400> 57181

cacggaggag gcgatgcgga acgccatcga gggcatgaac ggcaaggagc tggacggccg 60
caacatcacc gtcaacgagg cccagtcccg cggcggccgt ggaggcggcg gcggcggcgg 120
gtacggtggt ggccgcggag gcggcggcta cggcgggtggc gggcgccgtg atggcggcgg 180
cggctacggc ggtggcggcg gctacagtgg tggcggctgc ggctacagtg gtggtggcgg 240
cggctactgc ggtggcaacc gtggcggcgg ctacggcaac tacgacggga actggaggaa 300
ctgagcggtg gggcccgcgc ggtcaagtta tcctgttcgc taccgtgttg tttaccctag 360

tccagagtgt ttatcttcga tcgtctcgtg tttgttggtg cccatctgtg tttttgattg 420
aaggtcgctc tgtg 434

<210> 57182
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G7

<400> 57182

gtccttcatt cagtttagta atgagtgtga tgatagatat aaaaaaaaaag aggggaaaaaa 60
agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggccctttt aaaggatcca 180
agtttactta cgcgtgcatg caacgaaaaa atttttttaa agggtcacct aaattaaatt 240
aattggccgt gttttaaaaa ctgtgggatt ggaaaaacct tggggttacc aaatttaact 300
gctttggaga aaatcccctt ttccccagtt ggcgtaatac caaaaaggcc acaacggaag 360
gcctt 365

<210> 57183
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-A4

<400> 57183

cggacgcgtg ggcaggtggt cgctatgac caattggccc acctgacgtc ccagggtttg 60
agccatctag gtttgtagg cgtccaaggc ggcctccagg cgggagcacc caccagacc 120
tcgagttctt ccagcaaggc ccagacttct gagaatcgcg cagaggccg tcagagcctc 180
gccctaccct cacgaaataa cttcaaaatg ctgagccctc gagctagata tcccgcctcg 240
ttggcgtgat tgcaactgct gtatcgagta tagtcctagt gcgctttggc tgtgaagatg 300
gatgtgaaca tcggcctagt gtatctactc ttaaattcca g 341

<210> 57184
<211> 411
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-045-Q1-K1-B12

<400> 57184

attccccgggt cgaccgcacg cgtncgcccc ggcgcgtccgc ccacgcgtcc gggttctagac 60

cgtgcattac caaaaaacaa tagacaaggc gcaaggtgaa aaaaaaaact gaacaaaaaa 120

taataaaaga gcgccagttt ccaacattat gcatgatggg tactagtact ggtgacggcc 180

ggcgattgat attctggatc agatactaga tattgggtgac ccccgtaaga agggggttca 240

cttggctaaa tagtgtacca cttgtgcata ctatcctttg cttactctac cttcttgttc 300

catgtcagtt ctcaaggtga cccacactac aatcgccgtt tgcatgcagt gccctccctt 360

catggcaaat gaaatgccct ttacaccgaa cttttaaacg aaccgatca c 411

<210> 57185

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C2

<400> 57185

cgttccagga gttcaccgac ctcttggcta agccgacaaa ggtcttctg atcgaggctc 60

ccaccgagac agtgggaagct tgaacgtctt agtttactgt tccaagtgtc gcgaaaagag 120

ttttctgtac tagctacata ttttaaagtgt tttttgaat tatgatgaga aaccaaggta 180

tgcacccaaa 190

<210> 57186

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C4

<400> 57186

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aaactgaact cactattcat caaaataaat catttcaaaa atctacataa actaaaataa 120

tattaacaaa tataaataaa aaacgccaga cttctttaaa atatccaatt ttac 174

<210> 57187
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-D11

 <400> 57187

 cggacgcgtg ggcaggcacc ttggtggcga ctccatcgtg gaggtgatgc cctctgaagg 60
 ccattctccc cagcttagct ctcccacat tgtaatccct gtcttactcc gacacatcca 120
 gcatgatatc gcagtctagg ttggtcaagc gttcctccaa ggcgatgagc atccgaagct 180
 gtctacttgt caaaa 195

<210> 57188
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-F10

 <400> 57188

 attcccggat cgaccactc gtccgaccac tctccgcgc gtacgaaaac gcgtttgaca 60
 cagaaaaagc tgaaacgaaa gctaaggaaa atgcataga taaaaaagca aaaaaagaaa 120
 aaaataaaag gggcggacga tttaaagggt ccatacttac aaactcttaa atgcatgactga 180
 atcactttct tatagctcta cttatatata tttcactggc ctttaattttc caaatggtct 240
 acttgcaaaa ccgtgtgata cccaacttaa tagatttgcc tacttgcta tttacccgat 300
 tgggtgcatta gcatataggt caacctctat ggccatttcc aacagttgcc ctaactgac 360
 ggcaaatggt acgctccttg ctacgttgct tatagcgcag cttgtgtcat aggttctcgc 420
 acc 423

<210> 57189
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-G1

 <400> 57189

ttccccggtcg actccacgcg tccgcgagcg cgtgggaaaa aaaaaaaaaa aaataaaaaa 60
 aaaaaattaa aaaaaaaaaat tacatggaaa aaataagaaa aaataaaaaac tacatattct 120
 tatagaatac aatgctctta ctgatcgtga acttcaaaaag gagagatcta ttgtatctgt 180
 catcactaat cccattaact aagacgtggc tttatatctt gcccagcatt gctaaccctg 240
 catatgccat cctctatagg atgcaagctg atgaaccttc atttaaaatg tgtacttttag 300
 aatggagttc ttagcttgac gagcttttca ttgctctcaa tatctatccc ctga 354

<210> 57190

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G9

<400> 57190

aattccccggg tcgaccact cgtccgaaac aaacaaaaat aaaaagataa aaaaaataa 60
 aaatttataa caaacataa aaaaaaagga ggaaagtgga aaataactaa atgggtaaga 120
 gcatcaatat caccttgga aaaaagaaga tgaaaatgac ggggagcttg tagtatctaa 180
 aatcttcttc cagttggcaa ataagagtat ggaaatttct gaaacagaaa ctgcttgtga 240
 agaacctgaa gcacctgctt cagtgtattgg tccgaaaact ccaaagacaa tcacaccgca 300
 gccacgtcat cctaaaagta gtccatgtga aactcagcag aatatttcca ttgtgcaaga 360
 tcagctacta ctggacagcg aatgctaacc taccatgcct attgttagtc tggacgatga 420
 tgctatgaac cctgcatggt gtgctgtatc tgaaaaa 457

<210> 57191

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H5

<400> 57191

accggtcctg aattcacggg tcgaccacg cattcgaaaa aaaaaagat acaatatcga 60
 atgctaagaa caaatcgaaa aagaaaagag 90

<210> 57192
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-H6

 <400> 57192

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 tgataaatac ttagctgcaa attcagcaat gttcttggtg aaaaaaaaaa caaaaaagat 120
 aaaaaaaaaa gaaaagaaat taacaaaaaa aaaataaaaa aaaaacttac aagcataaaa 180
 gagtatgaaa agataatggg cgtccgtttt agaggactaa actttatgaa cgcgaaacatt 240
 caacgctata gttatattat agggtcacgt aaatgtaatt cactggccgg acttttaaaa 300
 aggcaca 307

<210> 57193
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-H9

 <400> 57193

 gcgtcgctgt gtgtgtttcg agtcagtcag ccagttagtt gcgtgccatg gctggcatgc 60
 tctgagtcctg agatgatgat gatgcctgac ggcggcgtct ggtactgtag tcttgccctg 120
 cccaatcggg cgcttctggc ggcgagcagt gtgttggtgc gtgtcgtgtg gctgcagaac 180
 attaacacgc tagccatgta ccatgctgtg gagtggtacc atccatgtat aataatctta 240
 tatgtatacc ccaaattacg aaaacaatgg ctgccctgt acaggatcca agctcaccta 300
 cgcgtgcatg ccaagccata cctctactat agcggcacct aaattcaata 350

<210> 57194
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-A3

 <400> 57194

 tcgaccact cgtccgcgga cgcgtgggaa aaaaaaaaaa aaaaatacaa aaattaaaaa 60

aaaacaaaaa aaaaagagga aaaggagggc tgtaaagaag ggctcgatatgt tctataacat 120
 ccacgtttat atgcgcttct atgcgatgct atagtgtctc ctatgtacac tccaaaagcc 180
 catagtttta gcacgctttt ttacagcgaa aaccattggg aaaaccctgc ttattcccat 240
 cttagtacat tcgcattaca tccgctttt 269

<210> 57195
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A7

<400> 57195

cccacgcgtc cgcccacgcg tccgtgtgtg gcagatttgc atcgtttttg tgtttcgtgg 60
 ctccatgtgt gagcatgctg tgtcctataa cctggtttat gagatgagtt gttaaacttg 120
 cttggcttga ttggttttac ctgtaagagc tgatagttat ataaaaaaaa aaaaaaaaaa 180
 aaaaataaaa caaacaatct acaggaaaca aaatgacaca cacatgcatt gccaatlgac 240
 aaaacttgaa taaaagggcg tgccgtttta gaggatccaa gtttacttac ccgtgcatgc 300
 aacgtcatag ctctttttta gggtcaccta atttcaattc at 342

<210> 57196
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B5

<400> 57196

atttcgagaa tcaactaacc aacaaatccg tagcccaggt gattcgctgc ctccctctgg 60
 ccaaaccaaa atgggatgaa tcttctcatg cagctttttt cttattcagg gcgctgcgaa 120
 gcatcaaggc aagggggtaa ataaaataag ggggaagagg agttgtcacg at 172

<210> 57197
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C11

<400> 57197

cccacgcgtc cgcccacgcg tccgcttata tttgctggaa catgaataaa agggctctcca 60

gctgggtactg cttagctctt acaggaaaac aatgggagag actttggact tctgaccta 120

aattaagcat tgcgcatgga gaaccttata tttgctggaa catgaataaa agcatttgac 180

aaaaaaaaa aaaaaacaaa aaataataaa aaacta 216

<210> 57198

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C12

<400> 57198

atattttttt tttttatggg tttttgggaa tttttttttt atattttttat ttactatatt 60

attttattta tattttttga atttatttga tttttaatac ttacaatttt aatgttctct 120

aagtgttaac aacgactaaa aatgataatt acttaaacca atcataagaa tctgatagac 180

ataatcaaaa gttcattaaa taagattttg atatatacac aatcgctata aattaagact 240

tgagaatata gctagattat gatcatcaga tacaagactc agctagcacc atattttaaag 300

ctgaataccc agtttttc 318

<210> 57199

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C5

<400> 57199

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ccatctgggt cttcggtgac ttattttttat catgcagtgc atgtgacttg aaactgtgat 120

ggacttgtat tgctttctgc cttatggcac ctgtagtagt gaactgatga aggaagttca 180

tgoggactct gaagctttgt tggcttagaa tggtaatttt gctgtattct atttcacagg 240

aaaaaaaaa aaaaaaaaac aaaaaaaat aaaaaaaaaa atatt 285

<210> 57200
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-C7

 <400> 57200

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 tttaaaaact gcaatggcac aaatgcttga gccatctgtg tcttaaagag acttatttat 120
 atcatgcaaa agcatgtgac tcgaaacttt tatagactcg aattgctttc tgccttaatg 180
 caactgtata attgaactta tgaacgaaga tcatgcagac tctgaagctt tgttacctta 240
 taatggacat taaaccgtat tctattccac aagaaataa 279

<210> 57201
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-D10

 <400> 57201

 ccggtccgga attgaccgga tcgacccacg cgtgcggttt agctgagacg ccattgggct 60
 ccatgtgctg gcgccttggt aactcacaga gcgcgtgggg gctgaatctg tttgagcagc 120
 ctacttgcaa tcatcctgag ctgatgctgt gctgctggtg catgctatac tatcattact 180
 tatcggtccc gctgtagctt cttaccacac ggtgacatta gttcgggtacc cgtatctgga 240
 tattttttta gccttcttcg ttggattggt caccggtgat ggcatgtatt aacagacata 300
 gttacatata gatgtaatga attcatgtct ggatcatatt gctttcagtt gcacaaatta 360
 a 361

<210> 57202
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-D2

 <400> 57202

 tgaactcaaa ccatcttatg aggggtcaaac ctgtttctaa tttctaaaaa aaaaaaaaag 60

aaaaaaggaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 120
 aaaaaaaaaa aaaataaaaa aaaataaaaa ataaaaaaaa ataaaataat aacaaaagaa 180
 gcccaaaacg atcgacactt aacaacaggt gcgcaacctt aatggagaat ggg 233

<210> 57203
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-046-Q1-K1-D4
 <400> 57203

agaggtatac gaagatgagc agcgctatga agacgtatgg gaagggcatc ttcttctcgc 60
 tgtgcgaatg ggggaggcaa aacctgcta cctgggcagg cggcattggg aacagctgga 120
 gaacgaccga tgatatcgcc gacaactggg gcagcatgac gtctcgtgca gaccagaacg 180
 acaggtgggc ttctacgcc ggacctggcg ggtggaacga tcctgacatg cttgaggtgg 240
 gcaacggcgg catgtccgag gcggagtacc gctctcactt cagcatctgg gcaactggcc 300
 aaggttcctt tctgatcggg tgcgacgtgc gcgcgatgag ccagcatacg atgggcatac 360
 tcagcaactc ggaagtca 378

<210> 57204
 <211> 219
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-046-Q1-K1-E6
 <400> 57204

gaattaccca ctgacccac gcctcctaaa aaaaaaata caataacatt aaaaaataaa 60
 aaaaaaaaaa aaaaaaaca ggaacatagg aatttttcat acgttcacta tcttcaatac 120
 caaaattatc ttatatcatc ttacttaatt tattttcact caccctotta tcaactttaa 180
 atgaattgac cgtcacttta catactccat ctcaataaa 219

<210> 57205
 <211> 93
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F7

<400> 57205

tccgacgcgt gcgaaaaaaaa aaaatccaaa cttacataca caataacata caacgtaata 60

acgaaaaata taaagacacc taaattcaaa tta 93

<210> 57206

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F8

<400> 57206

aattcccgac tcgacccacg cgtacgccc ctcgtccgcc cacacgttcg aaaaattcaa 60

aaaacacaaa aatatagagg taaacataca aatatacaaa atccatttag ccataataaa 120

tatatgttag tcctataacc ctaagtgtcc aact 154

<210> 57207

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F9

<400> 57207

cccacgcgtc cgctcgttgg cgccactggc tgggtggttct gcctctggtc tgggtgtgttt 60

gtgtgtggtc acacttgcca gctagcagag gcgcctgctt gtacctagat tactgtttcc 120

attgtcgtcg tcatcggcta acattgtcat aatgtcagtt tgggtaatgt tagattaaaa 180

aaaaaaaaat ataaaacaaa aaaaaataaa aaaaaatata aaataaaaaat t 231

<210> 57208

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H6

<400> 57208

taaccgacat cttoctcatc gcccaaatgg cttcatatat ctggaactcc acgtataaat 60

gtgatggatt ctgcaacttc ctccgtgccac cacatactgc atatggaggt ccaaagtgag 120
 ggtacaatac tatgccacac acatttgagc gaacaatata tcagtcctct acatgtttca 180
 tctactatca caaagttgca aaatatatat ggtgactatc attgaactta ccgtacctgg 240
 gccagtgtct ctgcctacac catacctgtg cattgtcagt actatttgct aca 293

<210> 57209
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A10

<400> 57209

aaaaaaaaa acaactatat accttacttt ttaaaaactt aatacaaaaa atatgggggtg 60
 gggttcaacta aataatgagc cttaggtcagc aatcctatct atccctttgt catatacgag 120
 acttatctcg ttgtaaatct cctttggggt caaccaata taatcaacta accccaactt 180
 tacatatttg tctaccataa taaccctgtc gaccaaattt ttaaacactt taatgaaca 239

<210> 57210
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-B1

<400> 57210

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 cctacttttg tccctaacca agggttacgt ctagtcttct ctctgggtg cttgatatct 180
 catgccatat caatgtatca gtacttacta ttgtttgtcg atataaggaa ttgctgacgt 240
 gcacataaaa atgttattct atatggactc agacacacac gttgttaaga cagggttcatt 300
 tggttaatac taatcattat cttccatgac ttaccattta tgttactcat ttgccatata 360
 agcccactct aaactaaggg acagttaa 388

<210> 57211
 <211> 436

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-B12

<400> 57211

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atctctcct tccgctcgaa cactaatgga ggaagctttg cttaaacat atgctgttct 120
gctcaaaaaa aaaaaaaaaa taaaaaaaaa aaatgaacta caaacctta taaaaaaaaa 180
aaagggggcg ccccttttaa aaacaaaatt aacaccccg cattaaaaag ggtgccctt 240
tttaaagggc cccaaaatta aaatcccttg ccgcgaattt taaaaacttt ttaatgggaa 300
aaacaatgta attcccaaac taatatTTTT aaaaaaaaaat ccctttttaa ccatttggtt 360
aaaaaacaaa aagccctaaa aaaaaccctt ttcaaaaaat tggcaatttt aaataaaaaa 420
gggaaccccc cttttt 436

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<210> 57212
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-B8

<400> 57212

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ccggggccga cgcacgcgtc cgaaaaaaaa aaaaaaaat aaaaaattta attttaaaaa 60
aaaaaaaaaa aaaaaaaga gaaagttaa tttaaaaatg gggcgccgc tctataaaat 120
ccaagcttac ttaccgtgc atgctacatc atagctttta tatattgtaa cctaaattca 180
att 183

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<210> 57213
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-C12

<400> 57213

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cccacgcgtc cgccactcg tcctctcctt cccttcatcc ggaacgtgat gcaggagcgg 60

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gtctgtcca cgcacgtgct gtacaagctc gtcaaggggt gcgaggagat gctggaccag 120
ctcctcctgc cccggaacca gcagcggccc gtgccgagcg acaacggcgg ggaaggagac 180
agcgacggcg acgacgacaa gcaacgaccg gcggagccag ggcctcatc gctgcccagc 240
ggcggcggcg gtggcgctgg cgacatggag ctggaggaga tcgaggacat ggagagcatg 300
tacatgaaga gtacggtggc cgcgctcagg gcgctcaggg agatcaggag cgggagctcc 360
acggtgagcg cgttctccct gccgccacta cggtgattga cacgttgtg 409

<210> 57214
<211> 266
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-C4

<400> 57214
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tagccctcta actaaggctg gaagggttaca ggctgtttat gtgagaactg aaaagggcgt 120
attgtttgaa atcaaaccctc atgtccgcat gccagaacc tttaaacgtt tctggggttt 180
aatgtcaciaa ttgttgcaaa aactgagcat tacggcagtt ggaaagcgtg agaagcttct 240
caacgttggt aaaaatcctg tcaactc 266

<210> 57215
<211> 439
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-C5

<400> 57215
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gtaggcatat agaagattga cgcgtgaagg gtagatccca cggcgctctg ttcctacgct 120
cttccgctag aactgacaca catcatgcag gagtcgagac atatgtggga caatcggtttt 180
ccacgtaact gcggacctcc tcatacgtac catgggaatt gaaaacctgt gtactgtaaa 240
gatagcccca ccgtttgact tcatactagc cgctgatgag ctgaataaca agtggctgct 300

cctgtcacga gctagatgtc ttgaaatggg ttggcggaat gatttatcaa gaacaatggt 360
 tggattacag ggtcgggcat gcggatggga cctgcgagac gaggatctat tccaaacgca 420
 gttttgtaag attttactt 439

<210> 57216

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-D12

<400> 57216

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 ttctaaacaa aaaaaaaaaa acacaaagcc aagttaaaat ttaaaactac gcaagcccca 120
 cccaanaaat caactttaca aatattaata tacaaaaaat cctatcccct ttcacataca 180
 catatcttaa cactatccac atctaaatca tctatatttt tcccttatcc cctattttta 240
 tttcattatc ccctttctaa aaaccatcat aattaaaaaa cccttttctt tccccatttt 300
 ttatactttt cccccctccc cattttccc 329

<210> 57217

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D2

<400> 57217

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 tgcgccaact actcctagcc tacggagggt ccttcagaa gcgcaggact ctaaaagccc 120
 tcgacttgcc attatccctc gccgaggagg tctactgata tcacataaac aatgacaaca 180
 ggctgttgct atgcttgcta gcataccatc gtgtcaaggg caccatcttt ttcacccaat 240
 agggagatgg ccgtaccact gtcaccggaa gtgtctttgg cctgaagact cggcttcatg 300
 gtgtccatgt acactcactc ttgacacca ccaatggatg catgataact ggaccacact 360
 acattgatgc gagcaaggag catg 384

<210> 57218
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-D3

<400> 57218

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 tctcgcgcgc catcaangcc gggctgaagg acaagggcct cgacgccatg ctggcgctgg 120
 ttgaggacga gacgctatcg tcgtttctct cgcgcgtctc gtcgtccgac gaagaggcag 180
 gccggacgca gctgaggcgc ccgtcgtcgg ggagctacgg gcggcggtca gccgaggagc 240
 cgggtggtgtg cagccccgcg agctcgtctg tggccgtcat ggtgcatgcc ctgcgcgaca 300
 ggggtgagcta cgtgtgggtc ctgcacgagg acagcgactg ccgccttget ggcacgtca 360
 cgttcgcgga cgtactgaag gtgttccggg agcagctgct gtgagatctg gaag 414

<210> 57219
 <211> 464
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-D9

<400> 57219

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 ccggatgggc gcacgcgcca gggcttggtc ttcgaccctg acggcaatgg cctanagggt 120
 actagcgtg gtgcaggaa tgagaagtga acagagacca tgatttgcag tctacttctg 180
 ttttatcgtg caatacctca gcaaaccctg cctacatgat gcgatcgaaa ccggagacgt 240
 tcctgggtca agcttcgttc cgtaaaataa ataaatccga agcacttcaa agctctacat 300
 actgcacctt gcttgtttga gacaagggtc tgcgttcttg ctgcatctca tccgagatga 360
 ttgtaatccg aacaatgtgt agttaataaa aatgtcgtt tgccctgaaa atgtttttacg 420
 ctgtaaacad cgctctgtac gtgattggat ttcctacatg acaa 464

<210> 57220
 <211> 460

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-E12

 <400> 57220

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 ttgtttccaa cgaaaactca gggcgtatgg gtgagggcca aacatttaca attgaacctt 120
 tactcacaat ggagaaaaca gagtgtgtta catgggaaga tggatggacg actgtcactg 180
 ctgatggtag ctgggctgcg cagtttgagc ataccatact ggtgactagg gacgggtgcag 240
 aaatactgac gaaagtctga gctattctcc tgcccgataa ttattgtcag aattctcagc 300
 tatggttcct gtcccaaggc atcctgggtca tgtccgttgc tcgccgcaat actcatttca 360
 gagttttgag atctgctgca ggccgacata cgggaaaagt ttcccccatg tagcagcaac 420
 ttgcaggtga taggtgaggg cacacacaca cacagagaca 460

<210> 57221
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-E2

 <400> 57221

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 acttcacaag gattcaagcc attctgctgc aaaagagttt tgggtacaac acaaaggaca 120
 caacaggtcc atttaaccaa cgaatccaca accacgtttc atgacacaca aaccacagtt 180
 ttttttttta cgacgacgac gcaaataccc aggtacagca gctgcttaaa tgaacctagg 240
 ctactgacc accacggagg cggagcacca ggtggagagg gctctccttc tgga 294

<210> 57222
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-E3

 <400> 57222

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agcttggcac caggccgggg tggttcgtgg cgacggcccc cacagcgatg cagcgaacg 120
ccaccacgca ggtcgtctgc cgagccaaca agggcggcgc ggcgttccgg cgagcggcga 180
gcttcgcgcg cgcgccgcg ctgaggcggt accacccgct gagcttcgcg gcgcgcggga 240
cggcgcggaa cttcctgctg gagccgctgc ggagcctgca ggatgagttc tacaccgtct 300
atattagcct cgtctccgac ggcgagagct gattgatcgg tgtgctcctg aacgaacgct 360
ccgctagttt cgctgtgcaa tgag 384

<210> 57223
<211> 117
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-F6
<400> 57223

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aaaaagtga aattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaa 117

<210> 57224
<211> 346
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-G2
<400> 57224

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cgacccttcc ggcgtgtaca gagagaggta gatccatcta agcttctgtc gcagtgtcac 120
ccgagctgcc ccaccccaaa ctgtttggat tagcgtctgt ttgatgggtg ggccctggga 180
cgtgacttga tacggcaa at tgcctatac tgatgtatcc taccctgttg aacaatcttc 240
ttgcctctct ctatatatat gaatatgaat gtacatgttc taagcctctc tgaagatttt 300
tgtaacatat tcaatatgac agccaatatt agccctaaaa gagtct 346

<210> 57225
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-H10

 <400> 57225

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 tctgggtccaa aatatggatg actagggtcat gtttgacggc tttagctttc tttggtaatg 120
 gttggccgaa actaatttga ccataaa 147

<210> 57226
 <211> 83
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-A2

 <400> 57226

 gttgtgaaca agttaaattgc ccaagacatt ttgtattggt ccattccagc tcaagaattc 60
 gaggctaagg attgcacagg agg 83

<210> 57227
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-A4

 <400> 57227

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 atttttaaaa aaacaattat aaatacgtaa atttgtataa atatcctaga gataatttca 120
 atattacaaa aaatcatttc acatactatt ccattatcca ataagtctcc ctccttgaat 180
 aaccctcatt cctttaacca tgtttccaat ttaaattact ctatcactat taagctt 237

<210> 57228
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3088-049-Q1-K1-A7

<400> 57228

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acccttggat ctctaggtac aatagtcgng nnnngnnangn nctnnnnnan nnctnnanen 120
gnnnctgcat accggggggtt gggcatatcc tgcagttaga tgatcaatgg tgattagata 180
catgttcttg aaccaatggc cagatgacag atggcatact aaacacccta ttgggtctcta 240
atattattat tgtcttgga ttgcaatgcc tgtgaagtac attattaatg gcaggcccag 300
gc 302

<210> 57229

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B4

<400> 57229

cccacgcgtc cggccagtca tacgaccgat ccctagtcga ttcgtgcctt tccacacgga 60
tatgctcaca cgggcccgtg aaggtttgat ccaggccgag cggaccgcgg tggcgggcggc 120
ggatatagct tgcacaaaag acgagatcac atacaatgaa ccaactggatc tgatacgact 180
cagtctcgac gagcgcattc acgtaaatct acgactctac cgccagctgc gcgacaagcc 240
tcatgcgaat gatcaacatt taaacatgat ac 272

<210> 57230

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B6

<400> 57230

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tgtgattgac cctgttcacc tgctggtata gtcggtaggg gggagtgaac taagcgagag 120
gttcgccaca tttgatttga ggatgtgtgt tgggacattc aaggtattct gtttcttgct 180
cttgacaagg gaggtgggtg ggtgtttgaa ggataagagc agtggggtac actttctcac 240

gtttttgtgc cccacacgct cgatatctgt attgatgatg gtccgtaaaa ccaaggtaaa 300
 tggctattcc aaaattttcg tgtttttt 328

<210> 57231
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-C2
 <400> 57231

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 cgcgtcctcc actcctcccc cacggagggg aggatggcgg agcccaaagc ggcggcgggcg 180
 aggaagacgc ggggtgggccc gtacgaggtc ggcaagacca tcggcagagg cagcttcgcc 240
 aaggtcaagc acgcgcgcga ctcccgacc ggcgccgtcc gcgccatcaa ggtgctcgac 300
 cgcaaccacg ttctnognca caggatgggtc gagcaggtct gtccgtccgt gatccgtccc 360
 ttccgncttc ccttcgcggg ccgctgggga acatatgtaa tgtaacctcc gggaaaattt 420
 ttaaataac cgagctgcc atagaaagaa cggcttcgcg aatc 464

<210> 57232
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-049-Q1-K1-C6
 <400> 57232

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 aaatgtccat ttaacctgag caaataaaaa ataaaaaaag aaaataataa ataaaaataa 180
 aaaaaacaaa aaaaaaaata aaaaaaaaag aaaagtaaaa acaaaaaaaa aaaaaaaagg 240
 gagtgacatt atacaggacc caagtttact acgagatcat tgcacgaaa gatttacttt 300
 atagtgaac ctaaattaaa ttatatggct gcatttt 337

<210> 57233
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-C8

 <400> 57233

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 ggcattctatc atgaccacaa aagaaaaata tacaataaaa aaaattacta acatgccata 120
 caattcaatg acaagcagca tcagacgcaa ctttgaacac attacctgac tcaagtactg 180
 gccataaaaa ccgaaataga ataaaggaac aatggagagg gaaaatagaa gaggattcac 240
 acaggatcca gcaagaattc caaatacaaa acaaggaaaa agattattaa caacaaacaa 300
 tgattcgatg ccttcaggac gatgagattt ttcaaccatc aaacaggcac tgaaagcttg 360
 cttagcaaag caagcagtac accttttgac attcattagt tttcaaaaat 410

<210> 57234
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-D2

 <400> 57234

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 aatcacaaac cttcggcgaa gacacggtgg ggccttgagt tctgggtggag tgtgcttgtg 120
 cgtgtcgctc gaagcccgta catcattgga tcaggatcatg ccggttgtgc ggtcacgctg 180
 gatgtcagaa gcaacctagc ttaaacctca ttcgtgtaca tgtaaaagga tccccctac 240
 agtatagtta aaaccagcgg agattcatcg cgtgatatgt ggagagatga gttccattga 300
 ttaatttatt tatactagtt gagattctgg ccctgtatcg tacgtatatc attggttttg 360
 tattagtgg tcaatagaat ttct 384

<210> 57235
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-D4

<400> 57235

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tgggttgagc tattagtcac agagatgaga aatgcttctg acataaacga tgcacgggct 120
cgtgcgtcaa gagctctgga ggctttggag aaaacgattg tagagcgtgc aggagctgaa 180
gtacacaaa acctgcataa ggaaaacatg atgctcaagg agcagttgac tgttggtctg 240
cgagagaact ccgtgctgaa gcgggcagtc gccatccagc acgagcgcca aaaggagtgc 300
gacgagaggt ctcacgaggt ccagaacttg aagcaacttg ttctgcagta ccaggagcaa 360
gttaggactc tagagatgaa caactacgcc ctcacaatgc atcttaagca ggctcaacag 420
aacagcttca tacctgggc 439

<210> 57236

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D7

<400> 57236

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tgagtggggg aaaaacaact tgccgctggg ttagtgaagc ttagtagcta ccactattca 120
agagttaaag ggagttcgta tgacagttcc tctggagatg ttatcttcaa agtcttatat 180
cactgctact tgtgagctgt gttaaaacct atatatataa gttttgtttg acgtgactgc 240

<210> 57237

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E3

<400> 57237

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aggcaattaa aatagaaccg cggccatcca agaccgg 97

<210> 57238

<211> 288

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-E7

 <400> 57238

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 gcagtctggt acatgctcct gcttgcttat ccatgaaata atgcctggac agtctgtaga 120
 tgttgcgaaa acatggtgcc ccctgtgggt gccgcgtgtg tagtaagtat ctctcagtcg 180
 tagtgtgggt gaagcatctg aactcttgag cggtttgcct gtgatggcat atgggtcaaa 240
 ctaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaataaa aaaataat 288

<210> 57239
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-F1

 <400> 57239

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 tctgtgagga agtcagttat gtttgagtga gaggggtact tcgctcttcg gtgaacactg 120
 tacttgtcat gaggagagtt ttcatacccg gagtgtagga actctgtact gtactcggat 180
 ccttcctttt tcatcgaagt gggttttatt ttatcaaac aaactcaaaa aagaagcact 240
 taaaacatcc aaaagacata tagcttggtg aatcattgaa cttaaaacgc t 291

<210> 57240
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-G5

 <400> 57240

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 cttgctaaat tcaggcagaa aaggaaagag cgctgttttg acaagaaggt gaggtatgtg 120
 aacaggaaga aacttgctga gacgaggcca aggggtgcgag gtcaatttgt taggcatgca 180
 agcaatatgg atatcataag cactggagat gatatatctg aagacgaaga tgacgatcca 240

acctacaggg aggtagatat gattttcttct ccagagtagt ggaaagggtcc tcttgtgtga 300
 aaaattagag tgcagatggt tactgctcac tttgttaciaa ctcagtagga ctagacaata 360
 cattcttcta ctggcaacaa agcaatacac ccttt 395

<210> 57241
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-049-Q1-K1-G7
 <400> 57241

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 caacatggca acaacagaca tgccaagctc cgggtatcctg ctgacgcctg ctggggccat 180
 cagcctgttc tcgtcgggct cttogetcca gatgcgctt cacttggcct ccatggacag 240
 ggatgctagg gtgctgaggt acagggagaa gaagaagaac acgaagtttg acaagaccat 300
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<210> 57242
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-049-Q1-K1-H2
 <400> 57242

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 ttagctagag ttgaaacctt atagaaacca caagttaagg ttcaagcaca tgaataccta 120
 ttttccatac acatatatct aaagttaaat tttgtactct tatcatttta agtcttcttt 180
 atcgtctttc cacatattaa agttggtatt tctctatata tctttccata gctgtcgcgc 240
 tttaggatac tactatgtac gagtgcttct agcactctga aggtctctta accggctgtg 300
 aagttttttt ttcaaaaaaa ataatggact acacaaacat ttattctaata gacttaaata 360
 ttaagaatca atctgagct 379

<210> 57243
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H3

<400> 57243

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aaagctaagc attgcacaaa a 81

<210> 57244
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H7

<400> 57244

gttttgaaca agttaaatgc ccaagacatt ttgttttgtt ccattccagc tcaagaatgc 60
ggagctaagc attgcacaga aagg 84

<210> 57245
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A11

<400> 57245

taaagagctc aacacctgat cgatccgtgt acagtaagca acacgttatg gaacaattcg 60
gcgattgatt gtacaataat tgaagacaag gtttataact ttaaaaaaaa aataaaaaaaaa 120
ataaaaaaaaa aaccaaataa aaataaaaaat aaataaaaaa acaacatcta aacaaaaaaaa 180
aaactaaaat acataaaaaag aataaataat ggcactaatt cctaaataaa aaaaaggggt 240
taatgcttat aagaatccat gttatatgac tcatgaatta accaatatga ttataatt 298

<210> 57246
<211> 478
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-050-Q1-K1-B1

<400> 57246

aattccccggg tcgacccacg cgtgcgggtgc actgttttgca gcatccgac ccgaagtc 60
ggaataactgc gagacgctca agtcggagga ctggccagtt tgtgcctgca ttaactatga 120
ctgtagtccg atgaatgcgt ctgaagaagc gcacaatctt gagacctcgc agctgggtctg 180
ggagaagaca ctggagatgg tcggccttcc gccggatgcc ctggagaagc tcatcgccgg 240
agaatcagtt cagtgccgtt acggacaaca ggatacaact ttttagttag cagtttagag 300
gtggtttgtt cggttgttat gtcattttga tcctaaattt gcagggagga aaacacaggg 360
aagggagaaa aagaatttgt tgacagctac caatctttgc tctttttctg tatgtgtgca 420
agatgttgtg aaggaggcgt agaaacacat ctnccccatt atttgaaaaa aattaaaa 478

<210> 57247
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B3

<400> 57247

ggtttctgtg ctgtgtaaca atgtatcggg ttattttctt taatgggtgtg ggaacattag 60
tagaagatga aacatttgac tgcttttttc cccactggat gtccactgga tcacgtcgca 120
aaatattttt ttttcatgat tcatgcataa ttctgtctt cc 162

<210> 57248
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B5

<400> 57248

attccccggtt cgacccacgt ctgcgggtat ctatgctcag taacaatgtc tcagtttatg 60
tactatatag acacgctaac attagtggaa tattgagcat tttactgcct taactatcac 120
tgtatttcca cttaatcacc tcacaaaata ctcttttttc atgactcata cataatttct 180

gcttattaaa cttaaaataa tacggcctgc cgctcatgca catccaaact tacttacgcg 240
 tgcattgcgat gacatacctt acctatatcg ttacctaaat tcaaatacact gaccgtagat 300
 ttacaacggt ctgactggta aaactcttga ttcacccaac ttaat 345

<210> 57249

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B7

<400> 57249

taaatgctaa tctacaaaact tgtattatct attgtgcatc tctagcttgg gtatcacttg 60
 agaatgttcg cacttatgac cacactaaca ttcaacttta agcactccac ttatactttt 120
 cttataaaca ttaacactta ctatctactt aatacacttt cgctctaaag gatccatgct 180
 tacctacacg ttcacacacc ttcacatcca ttctatgctg tcaacttaact atattgcact 240
 atcaattctt ttacaacacc gtgactttta aaacctttgc ctaaccacaa ctctatccgt 300
 tcccaactca ttctactttc tgcagattcc catatatct 339

<210> 57250

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B9

<400> 57250

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 ttggatctta cagccggttt ggcaagggat gctcagccgc atttgaagat tgacgttgct 120
 gagaacctga gacgatgata ggagaagata cagatagccg gtcggttggc tttaaccttg 180
 gaaacagtat gattgtgatg gagttgaaga agaacaaagt tgcgtctctc ctgtaaatac 240
 ctgtgaaagt aaaccctgaa tccggttaca gtcttaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa attaaaaaaaa taaaaataa aaaaaaaaaa agggcggacg 360
 ttctagaggt tccaagtta cttccgcgtg catgc 395

<210> 57251

<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D5

<400> 57251

aaacaaaaaa aaagaattac aaaaaaaaaa ttataataaa aataaaaaaac gagtataagc 60

<210> 57252
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E10

<400> 57252

ttggaattaa tgatgatgca tataacttgct taaattactg ctgacaccgc gttgtgtgtg 60

tagtgtatat atatctatat gtacgacgca tggcatatac tgctactcga actggacgat 120

ggagctgtag acgttgctcg gctgccagtc tgccggaatg acctgggtccg ccaccagcgt 180

cttgccggac tcgttggtga cgcgcagcga gaagggcccc tgcagcggcc ggcgggtgtc 240

catcctccat atggagcccc aggactcgcg catgggctcc cagacgccgg tgggctcgcc 300

gtcgtcgggg ctggactcca tcaggtccac ctgcaccacg tcgccgtcgc cgttctcgta 360

ctccaccagc accggcaggt agttgggggtt ggagccacgc tcgatgt 407

<210> 57253
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F4

<400> 57253

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gatcatgacg caccacaaga tcagggccgc catgggtggtg atcttggaac ccagacagat 120

ggagcagatc gtgtcactaa tatcaatgtc actcgacagc cagatcctac tgactggccc 180

agactcaatc attgccagat ctgtttgtgt tgacgctgat cctgatgatc gtttaaagat 240

tgggcacgac cttagccaga ccaactggaat cgccgcatgc tcatgtcgct tgaggatatca 300

cagtactcca gcgctgtata ccatcgacgg acttggggga gcctgatagg tacctatcct 360
gccgaaccca tgaca 375

<210> 57254

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G2

<400> 57254

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caaagccaac agccaagcag tcttgtgatt aatcagccaa attcacagcg atcacgtcgt 120
ccgtcaccag aacctcatgt ctgctcttgc tcacactgat cctcgtctcc gtgggtggcga 180
tcttgcccaa ctccctatgc catgcaacca gggctgtctc agcaatacgt atacattggg 240
accctaata tcttgcttgc atacgtctcat gctctgcttc tgtgtgctct tactctactc 300
ttacgtctta tactgtcggc gtcccttatg aacctt 336

<210> 57255

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G4

<400> 57255

gaccagtc tacttcaacg cgcggctccg agctttgcgc actactcgat attcatggct 60
cttgacgtat acgagaacta ctacctatc aaataccgct taccacagga catctgcttc 120
catctagata atacgtcttc tgcacatata tatgtcagat tgaataaatg tcagctcaat 180
gtatgacatg atctaggatg acctcgaaga ctattcgac tttgtcgaag ctacttccat 240
tcaccctaata aaactcaatc aca 263

<210> 57256

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G7

<400> 57256

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cgactacacc atcttcatgg gtcttgagga gtactagggc taggacctaa tgacatacgg 120

cttccgcgag gacatctggg tccatgtaga taagatgtcc tctgcacatg tgtatgtgag 180

attgaataaa ggtcagtcaa tggatgacat gagtgagggg ttgctggaag actgtgcgca 240

gcttgtcaaa gctaattcca ttcaaggtaa taaagtcaat aacattgatg tagcttatac 300

tccatggtac aatttgaaga agacgccttc aatggatgtg ggccaagttg gtttttatac 360

ccctaaa 367

<210> 57257

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H12

<400> 57257

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agggaaaaaa aaaaaaaaaa aaagaaaaaa aaaaataaaa aaaaaaa 107

<210> 57258

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H8

<400> 57258

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gagctgctca tccgcaagtt gcccttccag cgcctcgggc gtgagatcgc gcaggacttc 120

aagaccgatc tccgcttcca gtctccgctc gtcgccgcgc tgcattgaggc cgccgaggcc 180

tacctcgtgg ggctctttga ggacactaac ctctgcgcca tccacgcca ggcgcgtcacc 240

atcatgccca aggacatgca gctcgcgcgc cgcattcaggg gagagagggc ctgagcgagg 300

cgagctcctc tcaccgcagg cggcgtcgtt gttgcttcgg gcctgcttgt atgacttgtg 360

cttctcttgg tttccttctg gtggcagt 388

<210> 57259
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-E11

 <400> 57259

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 ttttcttttg gctgctacga ggcttccaaa tcattctggg aagccctctc cacttccaaa 120
 accaacttct ccattctctg catagagact aaaagatttc tcttgtggta ttcaaagtaa 180
 taaatcaaac catttccaaa gatcttaaag ccctaacttg tgaaattttc ttaccgaccg 240
 tt 242

<210> 57260
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-A1

 <400> 57260

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 gattagtttt gatgtatttc cccaagggtg ggacaaaatct tattgcttga gatattctga 180
 ggaatttcaa gaaatccatt tctttgggga taagacctac taggggtggca atgactatga 240
 gatatttgaa tctgaaagaa cagttggtca tacagttacc agtcccagtg acacagctca 300
 gcaatgcaga tctctctttt tgtcttaagt gatcttcagc ttattttcaa cacatattta 360
 ttaagtcatt tttgactgaa tgcctttttg gatttttttc aggacaattc attgctacca 420
 ttttttcttt gaataatt 438

<210> 57261
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-A7

<400> 57261

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gccatttctg cggggcgaaa gatgtggtac agatgccaaa aacatcaccg ggctggaagt 120
gaaaaaaatc atggagcagt ggcattggccg aagagtggca cacgcacaaa ctactgagga 180
gagggaaagc cattggagga gacagcagcc cttctggaat atcttgctaa caa 233

<210> 57262

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-B5

<400> 57262

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tcatgttggt taggctaagc gcactggaac cgaggtcgcg ttgaacgatc acagccatct 120
ggttctcaaa gaggatgacg ctataggtat cttagaaact gatgacgtga aagacatgaa 180
gcctctgaac gaccgcgttc taatcaaggt tgctgaagct gaagacaaaa ctccatgagg 240
cctactgctt acggaaactg ccaaggagaa gccatctatc ggaacgggtcc tcttggtgg 300
cccatgcccc ctggactagg accgctagag gcttacgctg gtcgattctg cggaacact 360
gtcctgaact cctagtacgt cggcagcgag ttc 393

<210> 57263

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-E6

<400> 57263

accacgcgtt cgatcgatca gttttacagt ttcaagagaa agagaaaaca tgaggaatgt 60
tttccacttc tcagaggact agaaatattg aagaaagaaa aaaggattta 110

<210> 57264

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-F6

<400> 57264

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aaaggtgatg tggcatt 77